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IMPERIAL GAZETTEER OF INDIA

PROVINCIAL SERIES

MADRAS

THE SOUTHERN AND WEST COAST DISTRICTS, NATIVE STATES, AND FRENCH POSSESSIONS

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PROVINCIAL GAZETTEERS OF INDIA

MADRAS

VOLUME II

NORTH ARCOT DISTRICT

Arcot, North, District (Arkāt).—An inland District on the eastern side of the Madras Presidency, lying between 12° 20′ and 13° 55′ N. and 78° 14′ and 79° 59′ E., with an area of 7,386 square miles. It gets its name from the fact that it originally comprised that portion of the former Musalmān Sūbah of Arcot which lies north of the Pālār river. The part to the south was added subsequently from the southern division of the Sūbah. The name is supposed to be a corruption of the Tamil āru-kādu ('six forests'), tradition stating that the country was once occupied by this number of forests, in which dwelt an equal number of rishis.

On the north the District is separated from Cuddanah by a portion of the Eastern Ghāts, locally known as the Tirupati hills, from the town of that name which lies at their foot. The range is broken by a long valley running northwards into Cuddapah District. Advantage has been taken of this gap by the north-west line of the Madras Railway, which passes up it through the Ghāts on its way to Bombay. On the west the District runs up to the Mysore plateau. In the south-west, separated from the Eastern Ghats by the fertile valley of the PĀLĀR, is the detached group of the JĀVADI HILLS, well wooded and containing much game, which divides the District from Salem and part of South Arcot. Along the southern and eastern borders, adjoining South Arcot and Chingleput, the country is flat and uninteresting. In the north-east the Nagari hills are conspicuous, with high precipitous cliffs, the most important peak being Nagari Nose (2,824 feet), in the Kärvetnagar samindāri overlooking the railway. This hill is

M. II.

visible from the sea in fine weather and is a recognized landmark. From all the ranges numerous small boulder-covered spurs branch off towards the centre of the District, and combine to render it one of the most varied and picturesque areas in the Presidency.

None of the hills is particularly lofty, the general elevation of the Eastern Ghāts and the Javādis being about 2,500 and 3,000 feet respectively. The highest peak is Avalapalle Drug (3,829 feet), in the Punganūru samīndāri. Karnaticgarh (3,124 feet) in the Polūr tāluk, and Kailāsagarh (2,743 feet) in Vellore, both on the Javādis, are other peaks of importance. Each has a small bungalow on its summit, which forms a pleasant retreat in the hot season. Except the Javādis, the hills are generally uninhabited.

The chief rivers of the District are the Pālār, and its tributaries the Cheyyār and Poini. Except for a few days in the year, the beds of these are dry, sandy wastes. The Cheyyār rises in the Javādis. It first flows southwards into South Arcot District, then, bending to the east and north-east, enters the southern tāluks of North Arcot, flows eastward across them, and finally falls into the Pālār near Wālājābād in Chingleput District. There are numerous other smaller rivers and streams, but none of them is worthy of special note.

Geologically, the greater part of the District consists of Archæean rocks, among which there are probably a few representatives of the older micaceous, hornblendic, and talcose gneisses, and of the younger thin-bedded quartz-magnetite schists. But, for the most part, the Archaeans are represented by the more uniform plutonic gneissose granite of the Bāramahāl type. This rock builds the edges and rugged scarps of the Mysore plateau, as well as many detached spurs, drugs, and tors. They are all cut through by granite veins. quartz veins, and basic trap dykes, the last in great profusion. On the north-east and east the Purana group of ancient unmetamorphosed sedimentaries is represented by the high scarped Nagari group of hills and the southern end of the Velikonda and Tirupati hills, which display grey and buffcoloured Nagari quartzites and conglomerates of the second lowest member of the Cuddapah series, in detached outliers from the great Cuddapah-Kurnool mass. Upper Gondwanas (Rāimahāls) are found in three adjacent areas on the eastern edge of the District. They consist of reddish sandstones and conglomerates, and clays and shales, with loose conglomerates containing imperfect plant remains. They are many hundred

feet thick and dip at moderate angles to the east, disappearing under the laterite and alluvium at the eastern edge of the District.

The flora of the District presents no points of particular interest. The growth on the hills is of the drier deciduous type usual to the lower spurs of the Eastern Ghāts, and in the low country are the ordinary Coromandel plants. The chief trees are referred to under Forests below.

The larger game includes the bison (Bos gaurus), which is found in small numbers on the Javädis, and an occasional tiger. Leopards are common throughout the rocky hills. The black bear, hyenas, sāmbar, spotted deer, jungle sheep or barking deer, antelope, and wild hog are also found in different parts of the District. Small game of the usual kinds are plentiful, and peafowl and jungle-fowl occur in the forests.

The climate is on the whole healthy, being very dry. The Javādis, however, are malarious at certain periods of the year. The low country is hot, but never unbearably so, while the elevated tract on the west shares the cooler temperatures of the adjoining Mysore plateau. Temperature is not officially recorded at any station.

The annual rainfall of the whole District for thirty years and many ranges and hills, which sometimes collect and sometimes divert the rain-bearing clouds, it varies greatly in different parts. The driest tract is that above the Ghäts, where the fall is only 31 inches. In the neighbouring Chandragiri tāluk it is 33 inches. In the centre of the District, however, the fall increases to 39 and on the east to 40 inches. Speaking generally, the south-west monsoon is more copious than the north-east on the plateau and in the centre of the District, and the north-east than the south-west in the east, where the country is nearer to the Bay of Bengal and less shut out from currents driving inland.

Cyclonic storms are not uncommon, usually occurring in May or October at the change of the monsoon. They do not ordinarily cause much damage. The most destructive occurred on May 2, 1872, when Vellore chiefly suffered. Extensive floods took place in November, 1903, when, owing to the breaching of some large tanks in Mysore within the upper catchment basin of the Pālār, that river overflowed its banks and did a great deal of damage. Ambūr suffered severely, as did also several villages on either bank of the river in both the Vellore and Gudiyāttam tāluks. The anicut (irrigation

dam) across the Pālār near Arcot was very badly breached, and 4½ lakhs has been spent in repairing it.

Historically, from the earliest times of which anything is known down to the close of the ninth century A.D., the District formed part of the territory of the Pallavas, whose capital was at Conjecveram, in Chingleput District. During the succeeding centuries, it passed successively under the sway of the Cholas of Uraiyūr, the Rāshtrakūta dynasty of Mālkhed, the great Chola king Rājārājā Deva of Tanjore, and the Hindu rulers of Vijayanagar. These last were overthrown by the Musalmans of the Deccan in 1565 at the battle of Tālikotā, and the country fell into the power of the Sultans of Bijapur and Golconda. The last nominal kings of the Vijayanagar line lived for some years at CHANDRAGIRI. In 1687 the emperor Aurangzeb sent his general Zulfikar Khan to annex the south of India to the Mughal empire, and the District then passed under the Muhammadan Nawabs of the Carnatic, who made Arcot their head-quarters.

During the next hundred years North Arcot was the scene of some of the most decisive battles in the history of Southern India. One of the Nawabs, Dost Alt, was defeated and killed in the sanguinary action at the Damalcheruvu Pass, in the Chandragiri tāluk, by the Marāthās, who had been called in by the Naiks of TRICHINOPOLY to avenge his annexation of their capital. His two successors were murdered: and in 1740 the Nawab Anwar-ud-din was defeated and killed at Ambūr, 50 miles west of Arcot, by his rival Chanda Sāhib, assisted by the French and Muzaffar Jang. During the war that followed on the Coromandel Coast, Arcot, the capital of the newly proclaimed Nawab Chanda Sahib, was captured by Clive on behalf of Muhammad All, the son of Anwar-ud-din. who was closely besieged by Chanda Sāhib and the French at Trichinopoly. Clive's subsequent brilliant defence of his prize is one of the most memorable events in Anglo-Indian history. On the renewal of the war in 1757 Arcot fell to the French. But Evre Coote signally defeated Lally, the French general, at Wandiwash in 1760, and soon after retook every fortress that had been lost to the enemy. Haidar Ali, the Muhammadan usurper of the Mysore throne, during his invasion of the Carnatic in 1767 laid siege to Ambur. But on the advance of a relieving army under Colonel Smith, he raised the siege and retired to Kaveripak. In 1780 he again descended the Ghats, laid waste Vellore and the surrounding country, and besieged Arcot. But hearing that an English

army under Sir Hector Munro was on its way thither, he abandoned the attempt. He succeeded, however, in cutting to pieces a detachment under Colonel Baillie at Pollilore, near Pālūr in the Wālājāpet tāluk. He afterwards resumed the siege of Arcot, which surrendered, while Ambur was also taken. He next laid siege to Vellore and Wandiwash. The latter was gallantly defended by Lieutenant Flint and was eventually relieved by Sir Evre Coote, who now commanded in Madras. Coote subsequently proceeded to the relief of Vellore and met the enemy at Sholinghur, where they had been drawn up to intercept him. The action was not decisive, but Haidar's loss was very heavy. Coote pushed on to Vellore and successfully provisioned it for three months. The next year (1782) he relieved Wandiwash, which had been again besieged, Flint once more offering a stout resistance. The war ended in 1782, and the District was not afterwards the scene of any serious fighting.

In 1781 the Nawab had assigned the revenues of the Carnatic to the Company, and North Arcot thus passed under their management. In 1801 it was, with the rest of the Carnatic, ceded in full sovereignty by the Nawab Azīm-ud-daula. The Poligār chiefs of the District gave constant trouble at first, but by 1805 all of them had been reduced to submission. Since then the quiet of the country has only once been disturbed. This was by the mutiny of the sepoys stationed at Vellore in 1806. The outbreak was quelled by troops from Arcot under Colonel Gillespie.

The District contains numerous kistvaens, the most remarkable group being at BAPANATTAM, a small village in the 1 Palmaner tāluk. These have been conjectured to be the work of the ancestors of the existing caste of Kurumbas, who according to tradition were once a powerful community. The ruined city at PADAVEDU in the Polür tāluk is also thought to have been their capital. Rock sculptures, the work of past generations of Jains, are to be seen in the Arcot taluk at Pancha Pāndavamalai, Māmandūr, and Tiruvattūr, in the Polür tähuk at Tirumala, and in Chittoor at Vallimalai. Inscriptions on stone are common, and many of them remain to be deciphered. Of the temples, the most famous Hindu examples are those of Kalahasti, Padavedu, Sholinghur, TIRUMALA, or Upper Tirupati, TIRUTTANI, Tiruchanur, Tiruvallam, Tiruvelangadu, Vallimalai, and Virinchipuram; and the best-known Jain shrine is that at Arungulam.

Appended are statistical particulars, for 1901, of the fifteen

tāluks and zamīndāri taksīls of which the District is made up:-

	e .	Nu	mber of	É	<u> </u>	Re of ion ion ion ion ion ion ion ion	of to	
Taluk.	Area in square		Villages.	Population	Population p	Percentage or variation in population between 1801 and 190	Number persons abl read an	
Wālājāpet	484	3	246	221,812	458	- 7.3	17.531	
Kālahasti	638	1	324	94,132	148	+15.0	4,327	
Chandragiri .	548	1	231	113,550	207	- 0.8	8,003	
Puttūr	542	١	340	170,235	314	+ 9-4	7,328	
Tiruttani	401	١	327	171,005	426		7,828	
Chittoor	793	1	338	209,868	265		10,541	
Punganūru	648	1	564	96,852	149	+ 5.2	4,126	
Palmaner	439	١.	91	51,575	117	+ 7.1	2,484	
Vellore	421	3	149	200,541	476	+ 3.9	18,583	
Gudiyāttam .	447	1	183	195,665	438	+ 10-7	9,486	
Arcot	432	3	258	180,564	418	+ 2.1	15,327	
Kangundi	347	•••	268	64,446	186	+ 19.2	1,789	
Arni	184		139	96,542	525	+ 5.2	7,368	
Polür	596	ı	170			+ 11-4	8,229	
Wandiwāsh .	466	٠	381	185,352	398	+ 4.2	11,580	
District total	7,386	12	3,912	3,207,712	299	+ 4.4	134,530	

In the density of its population North Arcot, like Coimbatore and Salem, both of which likewise consist largely of hill and jungle, is below the average of the southern Districts. Kangundi, Palmaner, and the Punganuru samindari on the Mysore plateau and in the Kālahasti Estate, there are less than 200 persons per square mile. The numbers at the four enumerations were as follows: 2,015,278 (1871), 1,817,814 (1881), 2,114,487 (1891), and 2,207,712 (1901). During the last thirty years, the population has increased by only about 13 per cent. The decline of nearly one-tenth in the decade 1871-81 was due to the great famine of 1876. During the ten years ending 1901 the increase was only 4 per cent. Continuous high prices led to considerable emigration in this period to Madras city, Chingleput District, and the Kolār gold-fields in the neighbouring State of Mysore. In 1901 Madras city contained 26,000 persons who had been born in North Arcot, Chingleput 37,000, and Mysore State no less than 54.000.

As in Chingleput and Salem, the villages in North Arcot are small, containing only 520 inhabitants on an average. The District possesses twelve towns: namely, the municipalities of Vellore (population, 43,537), Gudiyāttam (21,335\, Tirupati (15,485), and Wālājāpet (10,067), and eight smaller Unions. Chittor, the administrative head-quarters, ranks only seventh in size among the towns. Except perhaps Triupati, which owes its vitality to its temple, and Gudiyāttam and Ambūr, which contain a large number of enterprising Labbai traders, none of these towns is growing. The population of Vellore declined in the decade 1891-1901; and that of Arcot and Wālājāpet, which were once trade marts but have now been deserted by the stream of commerce, is less than it was thirty years ago.

Of the total population, 2,068,386, or nearly 94 per cent., are Hindus, 103,088 (5 per cent.) Musalmāns, and 22,964 (1 per cent.) Christians. Christians have, however, more than doubled in numbers during the last twenty years. Three-fourths of them are Roman Catholics. Jains number 8,000, being more numerous than in any other District except South Kanara. More than half of them are in the Wandiwāsh tātuk. About 56 per cent. of the people speak Tamil, which is the prevailing vernacular of the south-eastern tātuks, and 39 per cent. Telugu, which is the language mainly spoken elsewhere. As so considerable a proportion of the people speak each of these languages, the District Gasette and other official papers are usually printed in both.

Of Tamil castes, more than half belong to the two agricultural labourer communities of the Pallis and Paraiyans, who number respectively 357,000 and 193,000. After these the t most numerous body are the Vellālas (166,000), the great land-holding class among the Tamils. Interesting communities are the Irulas, Kanakkans, Mondis, and Panasavans, who are found in greater strength in this District than elsewhere. Irulas were till recently a jungle tribe subsisting mainly on forest produce, and are now splitting up into two sections, the jungle Irulas and the village Irulas. The latter have taken to cultivation and civilization, and look down upon the former. The Kanakkans are an uncommon class of accountants. The Mondis are a body of particularly pertinacious beggars, whose methods of extracting alms from the reluctant include cutting themselves with knives and other unpleasant performances. The Panasavans live largely by assisting at weddings and funerals, taking round the invitations and blowing the conches.

The four largest Telugu castes are the Kāpus (149,000), Mālas (144,000), Balijās (131,000), and Kammas (124,000).

Balijās are more numerous in North Arcot than in any other Madras District. Other Telugu castes which are also found here in greater strength than elsewhere are the Gandlas (oil-pressers); the Mutrāchas (cultivators and shikāris); the Jettis (wrestlers); the Jogis, who are jugglers, beggars, and pigbreeders; and the Panasas, a class of mendicants.

The Musalmans are mainly Shaikhs or Labbais, the latter being of partly Tamil origin and following many Hindu ways and customs. They are among the most enterprising traders in the Province.

Except that an even larger proportion than usual (as many as 74 per cent.) of the people are engaged in agriculture, the occupations of the inhabitants of the District present no striking variations from the normal.

Of the 22,000 Christians in the District, 22,100 are natives. Nearly 17,000 are Roman Catholics, 3,900 Presbyterians, and 900 Anglicans, the last sect consisting almost wholly of Europeans and Eurasians. The earliest mission work was started by Iesuit Roman Catholic priests, who had a church at Punganūru at least as early as 1735. The main field of work of the Catholic mission now lies in the Polur and Wandiwash taluks and the Arni jagir. The next most important mission is the American Arcot Mission, which began work in 1851. During the first decade the work was largely preparatory and evangelistic; but in 1861 the village movement began and has grown steadily, there being now twelve organized churches and a total Christian community of nearly 4,000. The mission is also doing much useful work in education and medical relief. Its principal stations are Vellore, Chittoor, Palmaner. Punganūru, Arni, Rānipet, Sholinghur, and Arkonam. Other minor missions working in the District are the German American (Ambūr); the Independent Danish (Vellore); the Dravidian (Vellore); and the Hermannsburg Evangelical Lutheran (Tirupati, Kālahasti, and Kārvetnagar).

The greater part of the soil in the Government tāluks is of the red ferruginous series (loam and sand), the proportion of red to black being about 4 to 1. The black soils are chiefly found near the principal rivers, occurring in all the tāluks but Palmaner. Nearly half the cultivable area consists of more or less fertile loam, black or red. By far the greater part of the black loam is 'wet' (irrigated) land; the greater part of the red is 'dry' land. The soil is fairly fertile, except in the open country to the south-east and on the plateau, where there is much scrub jungle. The most productive areas

are in the Gudiyāttam, Vellore, Chittoor, and Chandragiri tāluks and in the Kārvetnagar samīndāri, where there are many well-watered valleys.

The sowing seasons are, for 'dry' land, July to August, and for 'wet' land, September to October. About 63 per cent. of the cultivable area is cultivated in normal years, and about a fourth of this yields in addition a second crop. Rice, the most important staple, covers in normal years about 36 per cent. of the total cultivated area, while all the 'dry' grains together occupy only 48 per cent. In years of deficient rainfall the area under rice greatly diminishes, while that under 'dry' foodcrops increases correspondingly. The deficiency in rice in the last unfavourable year (1900) was as large as 123,000 acres, or about 33 per cent. of the average area in ordinary years. It is seldom that both monsoons are good, but it is only a deficiency in the north-east rains that materially affects agricultural operations.

The 7,386 square miles comprised in the District are made (up of 4,093 square miles of ryotwāri and 'minor inām' land, s 3,183 square miles of samīndāris, and 110 square miles of s 'whole inām' villages. Agricultural statistics are not available c for the samīndāris. Particulars for the ryotwāri and inām land in 1903-4 are given below, areas being in square miles:—

Täluğ		Area shown in accounts	Forests	Cultivable waste	Cultivated.	Irrigated.
Wālājāpet .		478	15	137	206	123
Chandragiri		407	240	46	54	21
Chittoor .		519	115	129	147	75
Palmaner,		439	204	46	71	19
Vellore .		420	204	40	120	50
Gudiyāttam		446	159	56	160	72
Arcot		432	33	157	183	91
Polür .		597	303	33	157	53
Wandiwish	•	465	18	97	229	95
District to	tal	4,203	1,291	74 ^I	1,327	599

The staple food-grains are rice, rāgi (Eleusine coracana), and cambu (Pennisetum typhoideum). The normal percentages of the areas under these crops to the total areas cultivated are 36, 13, and 12 respectively. Rice predominates in all tāluks but Palmaner, where rāgi accounts for 43 per cent. of the cropped area. The largest areas are found in the Wālājāpet, Arcot, and Wandiwāsh tāluks, where there are large tanks fed by the Pālār,

Poini, and Chevyar anicuts. More ragi than cambu is grown in Palmaner, Chittoor, and Wālājāpet, and more cambu than ragi in the remaining six tahuks. The crops next in imporance are varagu (Paspalum scrobiculatum), cholam (Sorghum vulgare), and horse-gram (Dalichas uniflorus). Sugar-cane is mainly grown in the Palmaner, Chittoor, Chandragiri, and Arcot tāluks. A considerable quantity of gingelly is raised in Wālājāpet, Arcot, Wandiwāsh, and Polūr, while ground-nut is mainly sown in Chittoor, Walajapet, Arcot, and Wandiwash. Indigo was once an important crop, but is so no longer. It is principally grown in Walajapet, Arcot, Vellore, and Gudiyattam. Gānja (Cannabis sativa), an intoxicating drug, is specially grown on the Javadi Hills under licences issued by the Abkari department. There are about 3,000 acres of mango groves in Chittoor, Gudiyattam, Vellore, and Chandragiri. The fruit is exported to Madras, Calicut, the Nizām's Dominions, Bombay, Rangoon, and other places, where it fetches a high price under the trade name of Mazagon (Bombay) mangoes. Oranges are largely sent to Madras, Salem, and elsewhere from Ambur and other villages in Vellore tiluk and the Kärvetnagar samindari. Betel leaves are exported from stations on the Madras and South Indian Railways to various parts of Northern India. Limes are raised for export to Madras in a few villages in the Chittoor and Gudivattam tāluks.

The area of holdings in 1003-4 is larger by 27 per cent. than the area thirty years ago. There are still about 500 square · miles of unoccupied cultivable land distributed over all the tāluks, but the soil is inferior. The only improvements in agricultural methods worth noting are the practice of raising a 'dry' crop on 'wet' lands as a first crop in years of scanty rainfall, and the adoption of the cultivation of puludi rice. This latter is sown without the aid of irrigation, and is generally put down two months before the irrigation source is expected to receive a supply. During the last two or three months of its growth it is irrigated. This system brings the crop to maturity even if water is scarce. The almost total displacement of the old rude wooden sugar-cane mills by iron ones and the discarding of the local ground-nut seed for better foreign varieties must also be noted. Advances have been taken under the Loans Acts by the ryots of this District far more freely than in any other in the Presidency except Coimbatore. During the sixteen years ending 1904, more than 8 lakhs was advanced, the greater portion of which has been laid out in digging or repairing wells.

Cattle of an ordinary type are bred in the Gudivāttam and (Palmaner tāluks and in certain samīndāri areas, such as Punganūru, Kallūr, and Pulicherla, the chief markets being Ranipet and Gudivattam. In Kalahasti many Nellore cattle are used, but the ryots do not breed from them. Above the Ghats good bullocks and cows are occasionally seen, the former of the Mysore breed (chiefly in Kangundi) and the latter in Punganūru. Sheep and goats are nowhere bred on a large scale. The sheep of the plains are the common long-legged red kind; but on the plateau, as well as in the west of Polūr, a small black breed called Kurumba sheep is met with which carries a fair quantity of wool. This is extensively used for making the coarse woollen blankets used by the ryots. In 1852 an attempt was made to improve the breed by the importation of half-bred Merino sheep from Mysore, but the experiment failed as the animals would not thrive here. None of the other domesticated animals deserve notice. Bullocks are chiefly owned for ploughing and lifting water from wells, while sheep and goats are reared for penning in the fields for manure as well as on account of their skins. These are either tanned at Ranipet. Ambur, and other places, or exported in the raw state.

Of the total area of ryotwari, 'minor inam,' and 'whole inam' land cropped, 599 square miles, or 45 per cent., were irrigated in 1903-4. Of this, 331 square miles (55 per cent.) were watered from tanks, 131 from wells, and 75 from Government canals. The figures given on p. 9 show in which taluks this extent was found. In a favourable season the irrigated area will often exceed half the net area cropped, the increase being chiefly from tanks. About 60 per cent, of the irrigated area is supplied by small tanks dependent on precarious local rainfall. The remaining 40 per cent. depends on larger tanks fed from dams across the rivers. This latter supply is also precarious, for the courses of the rivers are short, and, rising either in the District itself or just outside it, they are largely dependent on local rainfall. The principal anicut or barrage systems are the Pălăr anicut, which supplies 50,000 acres of first crop, and 25,000 acres of second: the Poini anicut, watering 22,000 acres of first crop and 9,000 of second; and the Cheyyar anicut, which irrigates 32,000 acres altogether. There are altogether 3,200 tanks in the District, of which 2,900, or more than 90 per cent., are small affairs not irrigating more than 200 acres each. More than half of these irrigate so acres each or less

A feature of the District is the number of wells which have been sunk to supplement the precarious tank supply. About 50,000 of these ensure a crop on at least as many acres of 'wet' land, but there is still much scope for further protection of the same kind. In addition, about 75,000 wells irrigate more than 100,000 acres of 'dry' crops. An ordinary well will always ensure a crop during one, and frequently during two, years of drought.

About 45,000 acres of 'wet' land are irrigated by channels, often several miles long, dug with great labour in the sandy beds of the rivers to tap the underground flow, which is remarkably copious and constant. Spring channels are also dug in likely places, especially in the Gudiyāttam tāluh, to utilize spring water. These irrigate on the whole about 15,000 acres.

The area in square miles of 'reserved' forests in each tāluk has been given above. The Javadi Hills, situated in the Polur and Vellore tāluks, make up the largest area reserved; next come the forests in Chandragiri, Palmaner, and Gudiyāttam. Arcot, Wālājāpet, and Wandiwāsh possess only a few scattered areas. The forests have been much opened up during the last few years by the construction of roads and bridle-paths. Four ehāt roads now ascend the Javādi Hills from Amerdi. Arasambut, Alangayam, and POLUR, and are connected on the plateau by bridle-paths. Hill villages and enclosures within the forests were demarcated and surveyed between 1900 and 1902, and the revenue settlement of these is about to begin. During the ten years ending 1902-3 the forests have yielded a net revenue. after payment for all improvements in communications, averaging Rs. 52.200, the chief sources of income being the sale of firewood, minor forest produce, bamboos and timber, and fees for grazing. The gross revenue in 1903-4 was Rs. 1,27,000. A working-plan, or scheme for felling areas in regular rotation, is under preparation. The most valuable tree is the red sanders (Pterocarbus santalinus), which grows chiefly in the Chandragiri forests. It is used for the preparation of a costly red dve. Teak (Tectona grandis), blackwood (Dalbergia latifolia), and sandal-wood (Santalum album) are found in small quantities in the Vellore and Polür jungles.

Good granite for building is procurable all over the District. Deposits of corundum and mica occur here and there, but the efforts hitherto made to work them at a profit have not proved successful. There is said to be copper in the Kālahasti samīndāri, but no capitalist has yet attempted to exploit it. Gold exists in the Pulicherla estate, but has not been

systematically mined. It is largely distributed in the Kangundi samIndāri, where there are a large number of old workings, a continuation of the Kolār workings just over the border in Mysore. The Mysore Reefs (Kangundi', Kempinkote, and Yerrakonda gold-mining companies carried on operations here for some years. Of these, the first was the most successful and extracted a considerable quantity of the metal; but the excessive hardness of the quartz and the fickleness of the lode, due to the broken nature of the country, proved too great a strain on the resources of the company and it has now practically closed operations.

Weaving, with its complements of spinning and dveing, is a the only noteworthy handicraft in the District, being the most important occupation next to agriculture. The majority of the weavers produce only the common cotton fabrics used by the lower classes of the people. The valuable silk stuffs worn by the wealthier Brahman women are woven at ARNI. Silk fabrics approaching these in quality are also manufactured at Wālājāpet and Tiruvattūr. Woollen carpets are a speciality of the Vellore Central jail, but the industry has not spread beyond its walls, though specimens of a poor quality are made at Wālājāpet. Wālājāpet is also noted for the manufacture of cloths on which patterns of birds, flowers, &c., are printed by hand in sundry colours by means of carved wooden blocks or engraved copper plates. The usual small local industries are conducted by blacksmiths, potters, leather-makers, goldsmiths, &c. An ornamental green-glazed earthenware of artistic design, some of the patterns being borrowed from European models, is made by a single family at Karigiri in the Gudiyattam taluk. A little brasswork is done at Vellore and Tirupati, and at the latter place some good wood-carving also. Rush mats are made at Wandiwash, and glass bangles in the Kälshasti zamīndāri. There are a number of tanneries in Ambür, Pernambut, Rānipet, and other places, which are chiefly in the hands of the Labbais, an enterprising class of Tamil-speaking Muhammadans. The largest in the District is at Devalapuram near Ambūr, which employs a daily average of 500 persons. In the English market the leather from this District is technically known as Ranipet and is highly valued.

The chief exports of North Arcot are rice, ground-nuts, hides, skins and horns, jaggery (coarse sugar), tamarind, stone, and Indian piece-goods; while the principal imports are European piece-goods, yarn and twist, salt, chillies, tobacco,

and a certain amount of unwrought brass and iron. Gudiyāttam is the centre of the skin trade of this and the adjoining
Districts. Vellore and Wālājāpet were formerly important
local marts, but since the opening of the railways they have
declined. The grain trade of Vellore is still, however, considerable. Local exchange of commodities is effected, as
elsewhere, at numerous weekly markets. Besides the Labbais
already referred to, the chief trading castes are the Balijās
and Komatis.

North Arcot is better off in the matter of railways than any other District in the Presidency. The Madras Railway, on the standard gauge, enters it some ten miles east of Arkonam, and from the latter place the north-west line runs through Tiruttani, Puttür, and Renigunta junction to the Cuddapah frontier. The south-west line passes through Wālājā Road and Kātpādi junctions, Gudiyāttam, and Ambūr on its way to Jalārpet in Salem; and the Bangalore branch from the latter place enters the District again in the Kangundi zamīndāri, the principal station being Kuppam at the top of the steepest part of the ghāt. A short branch line four miles in length runs from Wālājā Road junction to Rānipet.

The South Indian Railway, a metre-gauge line, has now a very large mileage in the District. The oldest portion is that from Conjecveram to Arkonam, which was subsequently continued to Chingleput and connected with the main line. The most important section of the South Indian system in the District is a line opened in 1801, which, starting from Villunuram in South Arcot, runs through Polur, Vellore, Kātpādi junction, and Chittoor to Pākāla junction. From here one branch has been taken eastwards through Chandragiri to join the previously existing metre-gauge line opened in 1887 between Tirupati and Nellore, which passes through Renigunta junction and Kālahasti to Gudur in Nellore District, where it meets the east-coast section of the Madras Railway: while in 1802 another branch from Pākāla was made across the platean, running north-westward through Cuddapah and Anantapur and joining the Southern Mahratta system at Dharmavaram. The total length of railways in the District is 333 miles, of which 166 belong to the Madras Railway and 167 to the South Indian.

The District is also well supplied with roads, the total length of 1,483 miles being metalled and in charge of the local boards. Avenues of trees are maintained along 1,019 miles. The most important routes are that from Madras to Calicut,

which traverses the Wālājāpet and Vellore tāluks, passing through Kāveripāk, Wālājāpet, Rānipet, Vellore, and Ambūr; the Bombay trunk road, which leaves this at Rānipet, and passes through Chittoor, Palmaner, and Punganūru; the Kurnool trunk road from Chittoor through Puthalpet and Damalcheruvu to the Cuddapah frontier; a branch from the last-mentioned road through Chandragiri, Tirupati, and Kālahasti to Nāyudupeta in Nellore, where it joins the coast road; and a road from Wālājā Road railway-station to Wandiwāsh, passing through Arcot and Tiruvattūr.

During the first third of the last century there were four I famines; during the second third of the century (1833-66) the District escaped. In 1877 came the great famine. In October of that year the number of persons receiving relief reached 205,600; and it is reckoned that the population was diminished by one-fifth by privation and disease. No less than 116,000 cattle were also estimated to have perished. The expenditure by the state on relief works amounted to 30 lakhs, and on gratuitous relief to a further 16½ lakhs. Famine or severe scarcity has since occurred in 1891-2, 1896-7, and 1900-1. In the first of these years the highest number of persons receiving relief was 15,000, and remissions of revenue amounting to over 4 lakhs were granted.

For general administrative purposes the District forms four I subdivisions, of which two, Vellore and Ränipet, are in charge of members of the Indian Civil Service, and the other two, and Ami and Chittoor, are managed by Deputy-Collectors recruited in India. Vellore comprises the Vellore, Gudiyättam, and Arcot täluks and the Kangundi samindäri tahsil; Ränipet comprises the Wālājāpet and Chandragiri tāluks and the samindāri tāluks and the samindāri tāluks and the kangundi samindāri); Arni comprises the Polūr and Wandiwāsh tāluks and the Arni jāgīr; and Chittoor comprises the Chittoor and Palmaner tāluks and the Punganāru samindāri tahsil.

Each tāluk is in charge of a tahsīldār, and each samīndārī tahsīl is in charge of an independent deputy-tahsīldār, who is also a sub-magistrate. Except in Palmaner, where the tahsīldār is himself the sub-magistrate, there is a stationary sub-magistrate for each tāluk. There are deputy-tahsīldārs to assist the tahsīldārs at Venkatagirīkota (Palmaner), Veilore, Pernamallār (Wandiwāsh), and Arkonam (Wālājāpet). The District staff includes the usual superior officers, and the head-quarters of an Assistant Commissioner of Salt and Abkāri and of a Deputy-Inspector-General of Police are situated at Vellore.

Civil justice is administered by six District Munsifs, at Vellore, Chittoor, Tirupati, Sholinghur, Rānipet, and Arni, and by the District Judge, whose court is at Chittoor. A Subordinate Judge also sits at Chittoor for six months in the year and at Salem for the other six. The chief criminal tribunal is the Court of Sessions. Crime fluctuates as elsewhere with the state of the season, but dacoities and cattle thefts are more than usually numerous.

Little is known of the revenue history of the District prior to the time of the Nawabs of the Carnatic, who ruled at Arcot from the commencement of the eighteenth century as deputies of the Nizam at Hyderabad. During the eighteenth century the District was the scene of incessant warfare; and the petty local chiefs and samindars, over whom the Nawab, distracted by his own troubles and anxieties, ceased to exercise any efficient control, extracted as high a rent as they could from the helpless cultivators. When the Nawab formally gave place to the British Government in 1801, the rents were found to be oppressive and unsystematic; and successive Collectors endeavoured to introduce a better revenue system, based on rational and just principles which might make the revenue demand consistent with the capacity of the cultivators and the resources of the land. After a system of leasing out whole villages to their head inhabitants, who collected what rents they could from the cultivators, had been tried for some years without success, it was resolved in 1822 to introduce the ryotwari system which has since prevailed. In 1805 the Collector (Mr. Græme) made a general survey and settlement in the northern part of the District. The assessments then fixed, however, were still very high; and it was not until between 1872 and 1879 that the revenue administration gradually reached its present stage. In 1872 a regular cadastral survey of the District was begun. This was followed by a resettlement of the revenue, which was completed in 1885. The survey found an excess of only 1 per cent, over the area shown in the accounts; the settlement raised the land revenue by 5 per cent., but this was made up of an increase of 10 per cent. in the assessment of the irrigated lands and a decrease of 3 per cent. in that on 'dry' lands. The average assessment on 'dry' land per acre is now Rs. 1-4-2 (maximum, Rs. 3-8-0; minimum, 6 annas), and that on 'wet' land Rs. 4-15-2 (maximum, Rs. 8; minimum, Rs. 2). The

revenue from land and the total revenue in recent years are given below, in thousands of rupees:—

	1880-1.	1890-1.	1900-t.	1903-4
Land revenue Total revenue	32,00 38,53	34,01 50,66		35,87 52,28

Outside the four municipalities, local affairs are in the hands of the District board, and (under it) of four tāluk boards, one for each subdivision. The affairs of twenty-one of the smaller towns are managed by Union panchāyats established under the Local Boards Act of 1884. In 1903-4 the total expenditure of all these bodies amounted to 4.36 lakhs, of which 2.26 lakhs was devoted to roads and buildings, 1.06 lakhs to medical institutions, sanitation, and vaccination, and Rs. 67,000 to education.

The District Superintendent of police at Chittoor has general 1 control over the force throughout North Arcot; but an Assis-J tant Superintendent stationed at Vellore has immediate charge of the southern portion of the District, consisting of Walaiapet. Kangundi, Vellore, Arcot, Polūr, Arni, and Wandiwash. The principal of the Vellore police training-school, who is an officer of the force, has recently been put in charge of Gudiyāttam as a Special Assistant Superintendent. There are 98 police stations; and the force numbers 1,305 constables, under 10 inspectors, besides 2,032 rural police. The reserve force at the District head-quarters numbers 62 men. Vellore contains one of the seven Central iails of the Presidency, with accommodation for 1,217 males and 90 females, as well as for 76 persons in the hospital, 40 in the observation cells, and 10 civil prisoners. The convicts are largely employed in making tents for Government departments and the private market. On an average 150 tents, valued at Rs. 20,000, are made annually. Cotton and woollen carpets are also manufactured, the annual out-turn being worth about Rs. 8,000. There are also 10 subsidiary jails located at the head-quarters of the several sub-magistrates, with accommodation for 373 persons.

According to the Census of 1901, North Arcot stands tenth E among the twenty-two Districts of the Presidency in the literacy of its population, of whom 6-1 per cent. (11-6 males and 0-6 females) are able to read and write. Compared with the other southern Districts it is backward. The Tamils are better educated than the Telugus, and, what is most unusual,

the Musalmans than the Christians. Of the nine taluks, education is most advanced in Vellore, Wālājāpet, and Arni, and is most backward on the plateau. The total number of pupils under instruction in 1880-1 was 16,642; in 1800-1, 37,006; in 1900-1, 48.053; and in 1903-4, 51,000. On March 31, 1004, there were in the District 1.611 educational institutions of all kinds, of which 1,053 were classed as public and 558 as private. Of the former as many as 1.015 were primary schools. Secondary schools numbered 28, and training and special schools o, and there was I college. The number of girls in both public and private institutions was 7,082. Of the public institutions, 11 were managed by the Educational department, or by local boards, and 24 by municipalities; while 540 were aided from public funds, and 278 were unaided but conformed to the rules of the Educational department. The trainingschools comprised 4 for masters and 1 for mistresses; and the A special schools are the American Arcot Mission industrial school at Arni. the Hermannsburg Lutheran German Mission (commercial) school at Tirupati, the Ranipet women's industrial school, and the Anjumani industrial school at Vellore. An enormous majority of the pupils under instruction are only in the primary classes, the number of girls who have advanced beyond that stage being especially small. Of the male population of school-going age, 18-6 per cent. were in the primary stage of instruction, and of the female population of the same age, 3.4 per cent. Among Musalmans, the percentages of the scholars (including those at Koran schools) of each sex to the male and female population of school-going age were 84 and 25 respectively. Panchama pupils to the number of 3,453 were under instruction in 166 primary schools. The American Arcot Mission College is at Vellore. It is the highest educational institution in the District, teaching up to the F.A. standard. It was affiliated to the University of Madras in 1898. In 1903-4 it had an average attendance of 655, of whom 23 were in the F.A. classes. The expenditure on education in that year was Rs. 2,48,000, of which Rs. 88,500 was derived from fees. Of the total amount 62 per cent. was devoted to primary education.

The District possesses six hospitals, situated at Vellore, Chittoor, Rănipet, Tirupati, Arni, and Palmaner. That at Rănipet is maintained by the American Mission; the others by the municipalities or local boards concerned. They contain accommodation for 183 in-patients. There are also fourteen dispensaries, located as a rule at the head-quarters of the

sub-magistrates, which are all maintained by the municipalities or the local boards. In 1903 the total number of cases treated was 195,000, of whom 2,600 were in-patients, and 7,000 operations were performed. The expenditure was Rs. 46,000, the greater part of which was met from Local and municipal funds. A fine women's hospital, embodying all the latest structural improvements and equipped with up-to-date surgical appliances, has lately been opened at Vellore by the American Mission.

In regard to vaccination, the District has been specially V backward of late years, owing chiefly to the unfavourable to character of the seasons and consequent distress among the agricultural population, and also to the spread of plague, which has made ignorant parents afraid lest under the guise of vaccination their children should be inoculated against that disease. The number of persons successfully vaccinated during 1903—4 was only 22 per mille of the population, compared with the Presidency mean of 30. Vaccination is now compulsory in the four municipalities and in fourteen of the twenty-one Unions.

(North Arcot Manual, by A. F. Cox and H. A. Stuart, 1895.)

Ränipet Subdivision.—Subdivision of North Arcot District, Madras, consisting of the tāluks of Wālājāpet and Chandragiri and the samīndāri tahsīls of Kālahasti and Kārvetnagar.

Wäläjäpet Täluk.--Eastern täluk of North Arcot District, Madras, lying between 12° 51' and 13° 12' N. and 70° 15' and 79° 48' E., with an area of 484 square miles. In 1891 the population was 230,340, but in 1001 it had declined to 221,812, the decrease exceeding 7 per cent, a more serious fall than occurred in any other taluk. It is still, however, the most populous part of the District. It contains 246 villages and the three towns of RANIPET (population, 7,607), SHO-LINGHUR (6,442), and WALAJAPET (10,067), the head-quarters. The demand on account of land revenue and cesses in 1903-4 amounted to Rs. 5,23,000. Wālājāpet is made up of the old tāluks of Kāveripāk and Sholinghur, which were combined in 1861, together with a few villages from the former taluk of Tiruvallam. For the most part the surface is flat, but in the north several small hills occur. The highest and most remarkable of these is the Sholinghur hill, upon which is perched a celebrated temple. The tilink is well supplied with communications, the south-west line of the Madras Railway crossing it from east to west and the north-west line traversing it from south to north.

Kalahasti Tahsil.— Zamindāri .tahsil in the Kalahasti samindāri in the north-east of North Arcot District, .Madras, lying between 13° 14' and 13° 55 N. and 79° 27' and 79° 59' E. Area, 638 square miles; population in 1901, 94,132, compared with 81,860 in 1891. The tahsil contains 324 villages and one town, Kalahasti (population, 11,992), the head-quarters. Demand for peshkask and land cess in 1903-4, Rs. 78,000.

Kālahasti Zamindāri.-One of the largest samindāri estates in Madras, situated partly in North Arcot District. partly in Nellore, and partly in Chingleput. Number of villages, 406 in North Arcot, 201 in Nellore, and 206 in Chingleput; area, 638 square miles in North Arcot, 576 in Nellore, and 250 in Chingleput; total population (1901). 223,327. The capital is the town of Kalahasti, where the samindar resides. The history of the family, which belongs to the Velams caste, is obscure. The original owner of the estate probably received it from a king of the Vijayanagar dynasty in the fifteenth century, on condition of maintaining order. The estate at one time spread as far as the site of Fort St. George, and the Company obtained the land on which Madras now stands from the proprietor in 1620. The settlement is traditionally said to have been named Chennappapatnam in honour of the samindar's father. The estate came under British control in 1702. and a formal grant to the family was made in 1801. The zamindar afterwards received the hereditary title of Raja. The gross income amounts to over 5 lakhs. The peshkash (or permanent revenue paid to Government) for the whole of it is 1.7 lakhs, and the demand for land cess amounts to Rs. 15.000. Owing to the estate being heavily encumbered. it was recently taken under the management of the Court of Wards, but it has now been handed back to the proprietor, The estate is in a great measure covered by scrub jungle, especially the portion in North Arcot District. Much firewood is sent to Madras city from these forests; and leopards, bears, and small game are fairly numerous in them. A large number of the jungle tribes of Irulas and Yanadis subsist by gathering honey, roots, and bark for sale in the neighbouring villages. The soil is not very rich, but about 140,000 acres are under cultivation.

Chandragie! Taink.—Taink in the north of North Arcot District, Madras, lying between 13° 24' and 13° 47' N. and 78° 58' and 79° 35' E., with head-quarters at the village of the

same name. Area, 548 square miles. It contains 231 villages and one town, the municipality of Tirupati (population, 15,485). Population in 1901, 113,550, compared with 114,436 in 1891. Demand for land revenue and cesses in 1903-4, Rs. 1,30,000. Chandragiri ('Moon hill') is one of the most hilly and picturesque tāluks in the District. The Eastern Ghāts run through the north of it and the Kārvetnagar hills occupy most of the south. It may, indeed, be said to consist of hills. These are more or less bare and rocky, but enclose narrow valleys rich with alluvial soil brought down from their sides. Its physical characteristics render it a most fertile area, the scrub jungle upon the hills retaining moisture and keeping the subsoil water at a high level, and also providing abundance of leaf manure, which the ryots are not backward in using. Some of these jungles form extensive and valuable forests.

Kārvetnagar Zamindāri,-Ancient zamindāri in the north-east of North Arcot District. Madras, lving between 13° 2' and 13° 35' N. and 79° 14' and 79° 49' E. Area, 943 square miles; number of villages, 667; population (1901). 341.240. It is held on permanent tenure under a sanad (grant) issued by the British Government in 1802. whole of the zamindari is hilly except the south-east; penetrating the hills run numerous picturesque ravines or konas. which are well wooded and fairly stocked with game. One of the most charming of these is the Sadasiva kona, about 10 miles north-east of the Puttür station on the Madras Railway. Here a perennial stream flows eastwards by a succession of cascades. by the sides of which tree-ferns and other kinds of water-loving plants grow in profusion. The principal streams which drain the samindari are named after the towns of Nārāvanavanam. Nagari, and TIRUTTANI, by which they flow. They are dry except during the rains, but have excellent underground springs, the water of which is tapped by means of channels and irrigates considerable areas on both banks. The soil of the estate is fertile; but much of it is covered with hill and jungle, and three-fourths of the area is uncultivable, only about 130,000 acres being under the plough. Indigo is still largely cultivated, but of late years the market for the dye has been depressed owing to the competition of its new chemical rival. From the forests of the samindari much fuel is exported to Madras by rail. The total peshkash (or permanent revenue paid to Government) is 1.7 lakhs, and the cesses in 1903-4 were an additional Rs. 50,000. The gross income of the whole property averages between 6 and 7 lakks, but it is heavily encumbered. Some

of the villages have been sold in satisfaction of decrees of the Civil Courts and now form separate properties, and the estatic is so involved in debt that it was taken under the management of the Court of Wards for a time. It has now been handed buck to the proprietor. Karvetnagar, 7 miles from Puttur railway station, is the chief town and the residence of the same saler, who has the hereditary title of Raji. Puttur Warayanavanam, Naguri, and Firuttani are other important places.

Puttur Tahail — Jamend et takail in North Arcot District Madras consisting of the northern half of the KARVITH 16 IP . amendari. Area, 542 square miles, population in 1001, 170,235, compared with 155 546 in 1891. It contains 340 villages, the head quarters being Puttura.

Tiruttam Tahail — Zamadari taks/ m North Arcot District, Madras, consisting of the southern half of the Karat MAGAR samundari Area 401 square miles population in 1901 171,005 compared with 173 151 m 1891, number of villages, 317, head quarters, Tiruttam

Chrittoor Subdivision (Chriter)—Subdivision of North Arrot District, Madris, consisting of the talishs of Christoon as d Palvaner and the Pungantino san indere taked

Chrittour Tillink — Taluk in the centre of North Arcor District, Madran lying between 13° and 13° 31 N and 78° 48 and 79° 19 E. It is he largest tillid in the District having an area of 793 square miles, and it contains one town, Christopa (population, 10,893) the head quarters of the District, and 338 villages. Population in 1901 209,868, or impared with 200,249 in 1891. The demand for land revenue and cesses in 1903 4 was Rs 3,21 000. The taluk consists of an undulating plum broken by a large number of maked meky hills rising abruptly from the surrounding country and covered with enormous grante boulders. The toil is good and large areas are under ringation, and the contrast between the vivid green of the patches of cultivation and the varied hues of the rocky eminences is most picturesque.

Pungantiru Tahali and Zamindari.—Lataic situated above the Ghats in the north-west corner of North Arcot District, Madras lying between 13° 10' and 13° 40' N and 78° 22' and 79° L, and adjoining Mysore. It extends over 648 square miks, and forms a takni in charge of a deputy taknidar and sub-magistrate. The population in 1901 was 96,852, compared with 92,023 in 1891. It contains 564 tillages and one town, Pungandari (population, 6353), the

head-quarters and residence of the samindar. The saskhash and land cess in 1903-4 amounted to Rs. 81,000. The estate runs up to the Mysore plateau, and its temperature is thus considerably lower than the rest of the District. Large game is abundant, and twenty-five years ago elephants were found. An excellent breed of cattle is maintained, and sugar-cano is largely cultivated. The family of the present sandadar is said to have actiled in the country as far back as the thirteenth century, and its members have a long local history. During the Mysore Wars the samindar assisted Lord Cornwalls with transport and provisions, and he and his successors managed the estate for many years as lessees for the British. the owner died without usons and a series of disputes arose. The estate eventually passed to his brother. A permanent sanas (grant) was bestoned by Government in 1861. The zamtadar belongs to the sect of Lingayata.

Palmaner Tälnk.—Tälak in the west of North Arcot District, Madras, lying between 12° 46' and 13° 17' N. and 78° 55' and 78° 49' E. Area, 439 square unites; population in 1901, 51,575, compared with 48,135 in 1891; number of villages, 91. Demand for land revenue and cesses in 1903-4, Rs. 92,000. The tälak is situated upon the Mysore plateau, about 2,500 feet above sea-level. It is consequently much cooler than the lower parts of the District, and in the winter months the mornings are quite sharp. There is a large extent of jungle. Though devoid of railway communication, the tāluk is well provided with roads. The head-quarters are at the village of the same name.

Vellore Subdivision.—Subdivision of North Arcot District, Madras, consisting of the talacts of Vellore, Gudty Atlan, and Arcot, and the Kangundi samindari takal.

Vellore Tähnk.— Tähnk in the south of North Arcot District, Madras, lying between 12° 39' and 12° 57' N. and 78° 39' and 79° 13' E. The northern portion runs along the right bank of the Pähän and is flat and open, but most of the rest is covered with numerous hill ranges. Of the total area (421 square miles) nearly half is under forest. The population in 1901 was 200,541, compared with 192,937 in 1891. It contains 149 villages and two towns: namely, Austra (population, 15,903) and Vallous numericality (43,537), the head-quarters of the tähak. The demand for land revenue and cesses in 1903-4 amounted to Ra 2,53,000.

Gudiyattam Taluk.—Taluk in the south of North Arcot District, Madras, lying between 12° 42' and 13° 5' N. and

78° 35' and 79° 16' E, with an area of 447 square miles. It contains one town, Gudin attam (population, 21,335) the head quarters, and 183 villages. Population rose from 176,709 in 1891 to 195,665 in 1901. The demand for land revenue and cesses in 1903-4 amounted to Rs 3,27,500. The talket is a long strip of land lying on the northern bank of the Pallis opposite to the Vellore talket on the other side of the river. The Eastern Ghitts throw many spurs into its western portion which is thus mainly composed of hills interspersed with valleys. The soil is generally good, being a mixture of sand and red class.

Arcot Taluk — Takek on the eastern boundary of North Arcot District, Madras, lying between 12° 38' and 12° 57' N and 79° 11' and 79° 45' L, with an area of 432 square miles. It contains one town, Arcot (population, 10,734), the head quarters, and 258 villages. Population rose from 176,878 in 1891 to 180 564 m 1901. The demand for land revenue and cesses in 1903–4 amounted to Rs 4 81,000. Almost the whole of the tunal consists of a flat and undiversified plain but on the extreme west and east are a few inagnificant, barren hills. The soil is poor, being very gravelly.

Kangund: Tahail - Lamadari takal in the south west corner of North Arcot District, Madras, lying between 12° 35' and 12° 56' N and 78° 14' and 78° 35 I', with an area of 347 square index. It comprises the Kangundi samundar. The head quarters are now the village of Kuppam, which is also the residence of the samundar, but the takal gets its name from the village of Kurcundi, which was formerly the chief town in this part of the country. The population rose from 54,052 in 1891 to 64,446 in 1901, the increase during the decade (19 per cent.) being the highest in any portion of the Dutrict. The increase was largely due to the existence of several gold mines, a continuation of those in the adjoining Kolär gold fields, in the part which borders on Mysore State. The number of villages is 268. The packings (including censes) payable to Go eriment amounted in 1903-4 to Rs. 20 500.

Arm Subdivision.—Subdivision of North Arcot District Madras, consisting of the samundars taked of Arms and the takeds of Polita and Wardivision

Armi Tahail — Zamindari takul in the south of North Arcot District, Madris, lying between 12° 29 and 12° 49 N and 79° 7 and 79° 22 E, and comprising the Armi jagir. The area is 184 square miles, or less than any other in the District Number of villages, 139, population in 1901, 96,542, com-

pared with 91,730 in 1891; head-quarters, ARNI (population, 12,485); peshkath payable to Government (including cesses), Rs. 21,000. The jägir was granted to an ancestor of the present holder early in the seventeenth century, as a reward for military services, by the Maratha chief Shahji during his expedition into the Carnatic.

Politr Tähuk.—Southern tāluk in North Arcot Dustict, Madras, lying between 12° 20' and 12° 45' N. and 78° 51' and 79° 22' E. Arca, 596 square miles. Population, 155,673 in 1901, as compared with 139,701 in 1891. The tāluk contains 170 villages and one town, Politik (population, 9 206), the head-quarters. The demand for land revenue and cases in 1903-4 amounted to Rs. 3,02,000. The tāluk is essentially a mountainous area, a large part of it being occupied by the Javādi Hills. The forests have great potential value, and yield a considerable amount of timber and other produce.

Wandiwitch Taluk.—South-east Al/LA of North Arcot District, Madras, lying between 12° 21' and 12° 41' N and 79° 19' and 79° 46' E. Area, 466 square miles; population in 1901, 185,252, compared with 177,723 in 1891; number of villages, 284; demand for land revenue and ceases in 1903-4, Rs. 5,05,000. It consists of level plain, diversified only by a very few rocky hills. The soil is poor and the country is but thinly wooded. The head-quarters are at Wandiwash.

Ambit. Town in the Vellore Ahak of North Arcot District, Madras, situated in 12° 48' N. and 78° 43' E. Population (1901), 15,903. It is a well-built and compact place, standing on the south bank of the Palar, about 30 miles from Vellore and 112 miles (by rail) from Madma, at the foot of the Kadapenattam Pass leading into Salem. Ambur is a station on the Madras Railway, and an excellent road connects it with Vellore and Salem. It possesses a considerable trade in oil, gld. and indigo, which the Labbai merchants collect here for export to Madraa. The almost inaccessible Ambür Drug towers above the town, and, from its position commending an important pass into the Carnatic, has been several times the scene of severe fighting. In 1740 the first pitched bettle in the long wars of the Carnatic was fought under its walls, when Anwar-ud-din, the Nawab of Arcot, was defeated by Muzaffar Jang. This encounter is remarkable as being the first occasion when European troops played a conspicuous part in Indian warfare, and is memorable also for the effect it had on the subsequent course of events.

Arcot Town,-Head-quarters of the table of the same

name in North Arcot District, Madras, satisfied in 120 54' N and 70° 20 E, on the right bank of the Palar, 2 miles from Rampet railway station on the Rampet branch of the Madras Railway Population (1901), 10,734. The interest of the place 19 almost entirely historical and it now possesses no industries or trade of importance and is fast declining. Formerly it was the capital of the powerful Navabs of the Carnatic, who are consequently often spoken of in history as the Nawibs of In 1712, in order to facilitate operations against Mysore, Seadet ullah Khan, commanding the Delhi forces, transferred his head quarters to Arcot and for the twenty years of his power, and during the time of his successor Dost All it remained the seat of government. But in 1740 the Maratha army of Raghup Bhonsla overran the District, Dost Ali was killed in battle. Safder All, who succeeded Dost Ali, was murdered in 1742 and his successor Sawid Muhammad shared the same fate in 1744. During the next seven years Arcot changed hands as many times, and in 1751 an English garnson occupied the fort. The capture and bullium defence of Arcot in that year by Clive with a small force of soo Europeans and 300 natives opposed to the large army of Rājā Sāhib, the Nanab's son, consisting of 120 I reach, 2,000 regular native troops, 300 cavalry, and 5,000 irregular foot soldiers, is among the most remarkable feats of British arms in India. In 1758 Arcot was surrendered to the French under Lally and two efforts made in the following year to regun possession of it failed. In 1760, however, Colonel Coote had siege to the fort, and after a bombardment of seven days took it. For the next twenty years it remained in the hands of the Nawab Muhammad Ali, the ally of the English, but when in 1780 the Mysore War extended to the District, Arcot was surrendered to Haidar Ali who held it till 1782 I apa Sultan succeeded to Hasdar's conquests, and after dostroy mg the fortifications abandoned the town. In the cession of the Carnetic to the English in 1801, Arcot was included He descendants of the Nawab, the head of whom is styled the Prince of Arcot, live in Madras, but still hold property in this neighbourhood

The town was formerly surrounded by a high rampart nearly 5 miles in circumference, 24 feet broad at the base and 12 feet at the top, and faced with a thick masonry wall. This had five gates, the chief of which was the Delhi Gate, which led out upon the bed of the Palär. The whole a now m complete ruin, but the Delhi gateway still stands and 15 an interesting

It is surmounted by a small chamber, from which a pretty view of the river and opposite bank may be obtained A tradition of doubtful authenticity asserts that this was a favourite resort of Cline. The palace is now a rum, and of the fort hardly a trace remains. Between the old palace and the fort stands the tomb of Nawab Seader ullah Khan, a domed structure about 50 feet in height and built, without much ornament, of greenstone, each block being beautifully cut and fitted into its place. A monthly allowance is made by Government for the decoration of the tomb and the performance of religious ceremonies. Close to the tomb is the principal mosque, the Jama Masad, and within the town are twenty two other places of Muhammadan worship all largely attended, bendes many other notable tombs Among the latter that of the faker Tipu Auha is regarded with particular veneration by Muhammadans

Arkonam.—Town in the Waltippet tahul of North Arcot District, Madras, attrated in 13° 5 N and 79° 40 E. It has spring into importance only since it became a railway junction. Here the north west and south west lines of the Madras Railway meet, and here also is the terminus of the branch of the South Indian Railway which runs from the main line at Chingleput. Population (1901), 5,313 many of whom are railway employes. The town is a Union under the Local Boards Act, and the head quarters of a deputy takuldar and sub magistrate.

Arm -Town in North Arcot District, Madras situated in 12° 41 N and 79° 17 E It is the head quarters of a Deputy (ellector and other officials, population (1901), 12,485 The most interesting building is the fort, an almost square structure which has been dismantled to a great extent. Until thirty years ago, Ami was a military station and at one time a very large one, as the long lines of deserted barracks testify. These buildings are fast falling into disrepair, but portions are still used as public offices. There are two old European cemeteries. near the western walls. An imposing monument in the shape of a high column stands on one side of the parade ground, it was exected, as an inscription shows, by an officer of the gameon in memory of a brother officer whom he had shot m a duel. At the north west angle of the enclosure m a fine old temple somewhat recalling that in the Vellore fort though it does not contain such excellent sculpture. A considerable industry in the manufacture of silk and cotton fabrics is carried on in the town

Bapanattam — Village in the Palmaner take of North Arcot District Madras, intuated in 13° 5' N and 78° 41 E 17 miles from Palmaner It is noteworthy for its extraordinary collection of prehistoric kistvaens which are called by the natives the temples of the Five Pandavas. There are others eliewhere in the table but nowhere are they so numerous as near this village. A few of them were explored by Lieut Colonel Branfil of the Trigonometrical Survey, who described the result in a paper in vol x of the Indian Antiquary They are of musual interest from the size shape, and arrangement of the slabs of which they are composed, as well as from their great number. It has been suggested that these kestvaens are tombs of the Kurumbas, a tribe who are still very numerous in this neighbourhood and were once, according to tradition a powerful clan. They are sometimes called hurumbarhudi (Kurumbas houses) in Tamil

Chandragura Town.—Head quarters of the taken of the same name in North Arcot District, Madras, situated in 13° 35 N and 70° 19 E, on the right bank of the Swarnamukhi river Population (1901) 4,923

Historically Chandragin has much interest. To its fort the fallen monarcha of the great empire of Vijayanagar fled after their power had been crushed at the battle of Talikota in 1565, and here for some years they maintained a pretence of their former state. The fort is said to have been built in a n 1000 by Immach Narasimha Yadava Riyalu one of the kinga who reigned at Narayanavanam in the Karvetnagar samindars, and to have been afterwards improved by the Vijayanagar kinga. It fell in 1646 into the power of the Sultan of Golconda. In 1758 it was held by Abdul Wahab khan, brother of the Nawab of the Carnatic. In 1782 Haidar Ali compelled the place to surrender, and it remained subject to Mysore until the Fresty of Seringapatam in 1792.

The fort is built on a huge grante rock rising about 600 fact above the surrounding country, and both from its site and fortifications must in former times have been impregnable by storm. A large space upon the southern side of the hill is enclosed by strong walls, now in ruins surrounded by a ditch once fed by a natural spring, but now almost dry. Within the walls stand the remains of the palace of the Rajas, several small temples, the ruined mud walls of the Muhammadan palace, and some maniapans. The main building is about 150 feet long. It faces south, with an imposing and well balanced facade of three storeys. The sky line is pleasingly

broken by Hindu terminations, resembling the tops of goparasis or towers, the largest surmounting the darker half. This apartment measures 21 feet square. It is surrounded by a colonnade, and uses through two storeys in such a way that the larger quantity of light comes through the upper ticr of arches, which thus forms a sort of clerestory. According to local tradition, the original document granting to the East India Company the site of Fort St George was signed here in 1639. The palace is maintained in good order by the Public Works department, and is now used as a travellers' bungalow.

The modern town of Chandragm is nearly built and hesto the east of the hill on which stands the fort. The old town has almost disappeared and its rate has been converted into fertile fields. The surrounding country is very productive and the scenery charming. Interesting archaeological remains abound, consisting of deserted temples, great reservoirs, and finely carved maniapants or porches.

Chrittor Town ('little town) — Head quarters of North Arcot Dutrict, Madras and of the talak of the same name, situated in 13° 13 N and 79° 6 E, in the valley of the Point river, on the South Indian Railway 18 miles north of Latpadi junction, and 100 miles by road from Madras Population (1901), 10,893 Being 990 feet above the sea, during the winter months it is pleasantly cool, but in former years it suffered from more than one outbreak of virulent fever, and in consequence the head quarters of some of the District staff were removed to Vellore. The place was a military station until 1874, but is now, everpt as the official centre, of no importance. It contains most of the usual courts and offices, and a Roman Catholic chapel

Damalcheruvu Pass — Pass in the Chandragin table of North Arcot District, Madris, attuated in 13° 29 N and 79° 3 E. It leads from the Carnatic to the Mysore plateau and was consequently the scene of frequent fighting in the wars of the eighteenth century. The Marutha chief Swaji made his first descent upon the Carnatic by this route. Here

The original grant of 1639 was given by the Nath of Windrea h or Penamalia, from whom the present near mear of halabasti claims to be descended. This was apparently confirmed soon afterwards by his is period, the Vijayanagar king then residing at Chandragar. The eldest document from the Vijayanagar king, of which a translation now exists is a confirmatory grant dated 1645. This was containly the occasion of the birst visit of any Linglishman to the king. W. Foster. The Francisco of Fort & George (1902).

m 1740 was fought the battle between the Markthis and the Nawab Dost Ah, in which the latter was defeated and killed A peculiar earther embankment crosses the road which leads through the pass, and continues over the hills on either aide. It is said to extend to frupati on the one side and to Yelagin in Salem District on the other, and to have been built long ago by two neighbouring kings to mark the boundaries of their realins.

Gudavittam Town. -- Head quarters of the taken of the same name in North Arcot District Madrae attested in 12° 58 N and 78° 53 E. 3 miles north of the Palar and about the same distance from the railway station, which is 96 miles from Madras and 318 from Cahout Population (1901), 21,335 Gudyattam was consultated a municipality in 1885 municipal receipts and expenditure during the ten years ending 1003-3 averaged Rs 10,600 and Rs 16 000 respec tively. In 1902-4 the moome was Rs 21 200 the chief source being the house and land taxes, and the expenditure was Rs at 400. A scheme for providing the town with a water supply is under consideration. Gudijātiam is a clean, well arranged town, most of the houses being tiled and the streets well laid out. The onef industry is weaving, but Labbars and Kanarese murchants carry on a brisk trade, the former in paggers, hides tamarind, tobacco, and gir and the latter in petty shopkeeping and money lending. Every Ineeday a large cattle fair takes place which rivals that of Rampet Some 500 head of cattle are usually exposed for sale, besides the goods found in all ordinary markets

Javadı Hills.—A detached group of hills, in Madras, lying between 12° 18 and 12° 54 N and 78° 35' and 79° 11 L, and for the most part situated in the south west corner of North Arcot District, though spurs run down into South Arcot and Salem. In North Arcot some of the peaks attam an elevation of over 3,000 feet. They are there separated from the LASTERN GRATS by the broad valley of the PALAR This narrows in the neighbourhood of Ambur, where the Javadis and the Eastern Ghats almost your, but it widens again as it leaves North Arcot and passes into Salem. The Javadus arc made up of numerous small plateaux, which contain in North Arcot 210 hamlets or clusters of buts, inhabited by a Famil speaking hill tribe called Malayalis. These people number nearly 10,000, and though they appear to be ethnologically of the same stock as the Tamils of the low country, their long nolation has led to divergences in their ways, and they

possess certain peculiar customs of their own. The climate of the hills is malanous at certain seasons, but does not ment the ritter condemnation generally accorded it. Spurs from the main range extend in a north easterly direction as far as the town of VELLORE, gradually decluming in height as they approach the Palar One detached peak, Kailanagarh, 2,743 feet in height, is only 6 miles distant from Vellore, and the small bungalow upon its summit forms a pleasant retreat during the hot season. The Javadia used to be covered with fine forest, but this has been almost entirely destroyed. Much damage was done when the construction of the south-west line of the Madras Railway was in progress, enormous quantities of timber being at that time felled for sleepers. Careful conservation is now doing much to remedy the recklessness of past years. Game is fairly abundant in these bills. sambar, spotted deer, kepards, and an occanonal tiger are found in them. The Javadas are one of the only two tracts in the Presidency where the cultivation of the intoxicating ganta (Cannabu satura) is permitted under heence coffee cultivation has been attempted on the South Arcot aide, and the produce is sold in the local markets. There are relies of Hindu temples, with some inscriptions, at Kovilanur on the way from Patraked to Komatrylir, and signs of former occupation by a civilized nation.

Kalahasti Town.—Town in the takul and samusdan of the same name in North Arcot District, Madras, situated in 13° 45' N and 79" 43' E with a station on the South Indian Railway, on the right bank of the Swarnamukhi at the extremity of the Nagari hills Population (1901), 11 992 is the residence of the Rajil of Kalaham, and the head quarters of the deputy-takulder and sub-magnetrate. A large number of the inhabitants are in the employ of the samuelar, whose residence, an imposing looking building, faces the eastern street of the old town. The approach to the town from the river is through the last gap in the Vagari bills, which are here considered so holy that the quarrying of stone or gravel is forbidden. Kalahasti is a thriving town, carrying on a brisk trade in grain, bangles, and many other articles A good deal of cotton stuff is woven in the suburbs, and the hand-printed and hand painted cotton fabrics enjoy a high reputation. Some of the latter gained a bronze medal at the Delhi Darhar Exhibition of 1903. The town is fumous for its Siva temple, wherem a feetival takes place annually during Pebruary and March.

Kangunds Village —Village in the savinders and taked of the same name in North Arcot District, Madras, intuated in 12° 46 N and 78° 27 E. Population (1901), 637. It was once the chief place in the neighbourhood and the residence of the saminder of kangunds, but has been depopulated by fever and famine. It lies at the base of a precipious hill, crowned with the runs of a fort which must have been a place of great strength. The saminders old palace is also an imposing pile.

Reveription —Village in the Waispapet taken of North Arcot District, Madras, intuited in 12° 54 \ and 79° 28 E. Population (1901), 5 566. It is known in history as the scene of the victory gained by Clive over Raja Sahib and his French albea in 1752. It is a flourishing place, lying to the south of the embankment of the large tank to which it gives its name. A small fort formerly stood near but this has been destroyed. The tank is the most extensive in the District, its embankment being about 4 miles long. Upon this is built a little bungalow, with a view over the water towards the Sholinghur hids. Wild duck and other water foul are abundant. Include, which is fed by a channel from the Palan is rarely dry, but has much silted up in the course of vents.

Mamandur -Village in the Arcot table of North Arcot District, Madras, a thated in 12° 45 N and 79° 40 l Population (1901), 1884. It is chiefly remarkable for its rock caves. Inc embankment of the large tank to which the village gives its name rests upon two low hills and upon the eastern face of the more southerly of these are the excavations. They were probably the work of the Jains, and possibly a party of monks from Conjecveram, which is only 7 miles distant, may here have hollowed out for themselves a retreat with narrow cells into which each might retire to indulge in minimerrupted meditation.

Padavedue—Village in the Polur takek of North Arcot District, Madran annated in 12° 40 N and 79° 7 L. Population (1901) 2,382. This deserted place is one of the most interesting in the District. Though it now contains few inhabitants, tradition says that it was the capital of a powerful dynasty which for many hundreds of years held sway in this part of the country. Perhaps it was a chief rity of the Kurumban who are declared to have been of old a powerful clan. It was 16 miles in circumference and full of the remains of temples, rest houses, and fine private residences. Its extent may be judged by the fact that the present villages

of Sandavisal, where the fair or sandar of the old town was held, and Pushpagin, the site of its flower market, are 4 miles apart. The place is traditionally declared to have been entombed by a shower of dust and stones which overwhelmed the whole of its magnificent buildings. Jungle now covers almost the whole area. Two extensive but runned forts stand upon the plain, and another upon a peak of the Javidi Hills which overlooks the village. The two principal temples in Padavedu are dedicated, one to a goddess called Renukāmbal, and the other to Rāmaswāmi. The former is the more celebrated, and is still visited by large crowds on Findays in the month of Adi

Palmaner Town —Head quarters of the talks of the same name in North Arcot District, Madras situated in 13° 13 N and 78° 46 E. Population (1901), 4,850. Palmaner stands on the plateau of Mysore at a height of 2,247 feet above sea level, and is much cooler than the lower parts of the District. It has accordingly always been a sanitarium for the North Arcot officials, and before the route to the Nilgins was opened up was resorted to also by Europeans from Madras. It contains several excellent bungalows. Some of the gorges and valleys in the hills round about are beautiful. A favourite resort in Gangamina's valley, where a small stream falls from a height of about 200 feet into a deep pool shut in on all sides but one by precipitous walls of rock.

Polar Town.—Head quarters of the takek of the same name in North Arcot District, Madras, attuated in 12° 31' N and 79° 7 E. Population (1901) 9,206. It stands about a miles from the northern bank of the Chevy'r, and east of some hills. Between these is built the embankment of the Polar reservoir, which is fed by the waters of the Manyalar. The Sampatgin hill near by is topped by a holy temple, and there is another shrine in the town. A small ruined fort, without any history, stands not far off. The town is poorly built, with narrow and ill arranged streets, but has a brisk trade in grain.

Point.—A river of North Arcot District Madras, which rises in the hills of the Chandragin to like in 13° 34' N and 79° 6 E. It flows almost due south, and after receiving the waters of numerous smaller streams finally joins the Palär not far from Arcot, after a course of about 45 miles. Its waters are largely used for irrigation, and it is crossed by a dam, 792 feet in length from wing to wing, which was built in 1853. The dam was much damaged in 1874 by the same flood which

breached the Pälär dam, and was subsequently reconstructed. During the south-west monsoon the Poin has a more regular supply of water than the Palar. The area commanded by the dam is 26 500 acres, of which 22,000 acres were inigated in 1903—4. The supply might be further increased during the north east monsoon if the storage capacity of the reservoirs which are fed by it were enlarged, but during the south west monsoon all the surplus water running over this dam has to be sent down to the Palar barrage, where the supply is often deficient.

Pungantiru Town.—Head quarters of the takel and camed n of the same name in North Arcot District, Madras, utuated in 13° 22' N and 78° 35' E, on a plateau 2,000 feet above sea level. Population (1901), 6,353. The town is prosperous, and owing to its elevation its temperature is much less torned than that of the lower parts of the District. A large cattle fair is held in April. The sameadar has set asido a portion of his palace for the use of European travellers, and the building possesses a museum containing a curious collection of his-size models representing natives of various castes in their usual costumes. A mile from the town are the ruins of a large Roman Cathohe chapel bearing the date 1780.

Rampet ('Oueen's town') - Town in the Walapapet talks of North Arcot District, Madras, attrated in 12° 56' N and 70° 20' E. on the north bank of the Palar nier Popu Litton (1901), 7 607. The place comprises the European quarters of Arcot, and is said to have been founded about the year 1713 by Sandat ullah Khan, in honour of the youthful widow of Desing Raja of Gingee, who committed sats when her husband was usun by Saudat ullah's forces. The place was of no importance till it became a British cantonment, when it was made a large cavalry station and rapidly extended It is now the head-quarters of the drussonal officer Roman Catholics and the American Mission have churches in There is a large dispension, and every Finday the town a fair is held on the old parade ground north of the town, where a larger number of cattle are sold than in any other market in the District. The Naulakh Bagh or 'mine lakh garden' of mangues and other trees, planted by one of the early Nawahs. of Arcot, is near the town

Sholinghur.—Town in the Wildyspet talks of North Arcot District, Madrus, situated in 13° 7′ N and 79° 25′ B. Population (1901), 6,442. The station of the same name on the Madras Rasiway is 7½ miles from the town. The name is

said to be a contraction of the words Choia lings pursm, and to have been given to it because one of the Chola kings here found a natural hugem and built a shrine over it called the Choleswara or Sholeswara temple The town is extensive. and a brisk trade is carried on in its baser, and at its weekly fair. But the place derives its chief importance from its Besides that of Sholeswara, another shrine within temples the town is dedicated to Bhaktavatual. This is of fine proportions and is thought to have been built by one of the Vipayanagar kings. The other chief temples he outside the The most celebrated is that of Naraumhaswami, situated upon the summit of the loftiest hill in the neighbour hood. From it a magnificent view may be obtained of the country round, with its reservoirs and fertile cultivation. Upon 4 lower hill to the east is a temple to Anjaneyaswami which though not so pretentious as its neighbour architecturally. enjoys an equally wide reputation. Women suffering from dementia or hysteria (who are supposed to be possessed by evil spirits) are brought to it to be cured. Another fine shrme has below the Narasimhaswami hill It is now in ruins, having been struck, it would appear, by lightning, and its finely carried columns he about in confusion. There are very many secred pools or arthurus round Sholinghur, the chief being the Bruhma tertham, in which people bothe on Thursdays. In the neighbourhood of Sholinghur, in 1781, was fought the battle between Sir Eyre Coote and Hudar Ali in which the latter lost heavily. Two large Muhammadan tombs by the aide of the road on the south of the town mark the spot where the bodies of the siam of the Mysore army were interred in two common graves

Thrumala (or Upper Thrupati) — Thrupati, in the tālak of Chandragut in North Arcot District, Madras, is celebrated throughout Southern India for the temple on Thrumala, the holy hill, 2,500 feet high. This place, often known as Upper Irrupati, is 6 miles distant from Thrupati town and situated in 13° 41′ N and 79° 21 E. The shrine is dedicated to Venkateswaraswami, an incarnation of Vishmi, and is considered so holy that formerly no Christian or Musalman was allowed even to ascend the hill. Since 1870, however, European magnitudal and police officers go up occasionally on duty, and visitors are sometimes allowed there as a special case, provided that they bring no low casts servants, and have obtained the special permission of the District Magnituste and the makans or trustee. But no European has ever entered the

temple itself and there is no description on record of its intenor. From all parts of India thousands of pilgrims annually flock to Triupati with rich offerings to the idol. Up to 1843 the temple was under the management of Government, which derived a considerable revenue from these offerings, but now they are made over to the makent, who is also the head of a religious math (or monasters) situated in the town. During the first are years of British rule the income of the temple averaged upwards of a lakks, but the amount is said to have decreased of late. The hill on which the temple stands possesses a number of the usual holy bothing places, some of which are picturesquely situated.

Turupata Town.—Town in the Chandragen takek of North Arcot District, Madras, situated in 13° 38 N and 79° 24' E. in the valley about a miles broad, which divides the Tirupati hills from those of the Karveineger samedar: Population (1901), 15,485. It is a flourishing and busy place, and is crowded at all times with pilgrims to the famous shrinc on TIPU WALA The town contains several important temples under the management of the makent of this shine municipality was constituted in 1886. The municipal receipts and expenditure during the ten years ending 1902 3 averaged Rs 39,100 and Rs 59,700 respectively. In 1903-4 the meome was Rs 18,200, chiefly derived from house and land taxes and water rate, and the expenditure was Rs 21,400. The apparent excess of expenditure over income is due to the construction of waterworks from funds previously contributed by Government. The brass industry of the town is well known, a large encrusted oval tray made here gained a first prize and silver medal at the Dellu Darbar Exhibition of 1903. The wood curving also deserves mention

Trruttam Village.—Head-quarters of the semanders taked of the same name in the Karlstragar semanders in North Arcot Dutrict, Madras, situated in 13° 11 N and 79° 37' L, with a station on the Madras Railway Population (1901), 3,607. A hill temple, deducated to Subrahmanyaswami, one of the sons of Sisa, is largely frequented by pilgrims, and is held to be next in importance to the famous shrine at Lire malaness l'iretaati

Vellore Town.—Head-quarters of the tābik of the same name in North Arcot District, Madras, situated in 12° 55' N and 79° 9' L., on the right bank of the Parks, with a station on the Vilkipuram branch of the South Indian Railway, 4 miks from the Kitpade junction on the south west line of the Madras

Railway and 87 miles from Madras. Population (1901), 43 537 having decreased somewhat in recent years. Vellore is the largest town in the District and was constituted a municipality in 1866. The municipal receipts and expenditure during the ten years ending 1902—3 averaged Rs 35 100 and Rs 59 200 respectively. The deficit was met by a loan from Government. The income in 1903—4 was Rs 72,500 and the expenditure Rs 65 600. Of the former Rs 17 500 was contributed by Government and an almost equal amount was derived from house and land taxes, and from market fees and tolls. Plans and estimates for a water supply to cost 3½ lakhs are now under scruting.

The town in the head quarters of the divisional officer District Medical and Samiary officer Frecutive and District Board Engineers Assistant Commissioner of Salt Abkan, and Customs Deputy Inspector General of Police Assistant Superintendent of police and Government Chap am. It also contains the police training school the Arcot Mission College and a high school. There is a large trade in grain, and the cultivation of sweet scented flowers is one of the industries of the place many bales of these being daily sent by rail to Madras.

The chief object of interest in Vellore is the fort and the temple therein. The former is one of the most perfect specimens of military architecture in Southern Indus and the latter contains sculptures which by some are thought to rival those of Madura. The fort is declared by local tradition to have been built about .274 by Bommi Reddi a refugee chief from Bhadrichulam on the banks of the Godavan and nunded over to the Kapas of Vipayanagar. In roulity however it appears to have been constructed not earlier than the seventeenth century. About the middle of that century the Sultan of Bijapur seized Vellore. In 1676 the Maraties captured it after four and a half months sage. In 1708 Daud Khan from Delhi custed the Marathas In 1710 when it was according to Orme the strongest fortrees in the CARNATIC II was given by Dost Ah to his son in law latters son Murtara th murdered the Nanab Safdar th here in 174". For more than twenty years the fort was the stronghold of Murtaza Alt who defied the authority of his lawful chief the Nawab of Arcot, and his English allies Shortly after 1760 Vellore was occupied by an English gar rson In 1780 Haidar Ah invested the place which held out against overwhelming numbers and mnumerable difficulties. A dozen times in the course of the siege there was not rice

for three days' consumption, and all the energies of the Madras Government and of Sir Eyre (oote were directed to throwing in supplies. An assault, which was most grillantly and per sistently made, was repulsed, and the siege reduced to a blockade which the garrison, although reduced to great straits, withstood for two years, till finally it was raised by the advance of an army from Madras and Haidar's death. In 1791 Vellore was the base for Lord Connially's march on Bangalore. After the fall of Seringapatam (1799), the family of Tipu Sultan were detained here, and to their intrigues is ritributed the mutiny of 1856 when most of the officers and a large number of European soldiers were massacred by the sepoys. The revolt was promptly put down by Colonel Gillespie, who was stationed at 'troot, and the 'Itsore princes were removed to Bengal

The fort is surrounded by a ditch which is supplied with water by a subterranean dram connecting it with a large reservoir near the milway station. The old entrance was by a winding roadway with massive gates protected by a draw bridge but a straight road has now been out through the ram part. On the south side a footway also crosses the ditch on a STORE CATHERIAN I here is no other means of entrance across the ditch The fort contains a church and several other buildings now occupied by public offices. The temple, formerly used for many years as an argenal, is a most interesting structure The best sculpture is found in the porch on the left of the entrance, which consums monolithic pillars of great beauty and delicacy of execution. It is said that the East India Company once proposed to send the building to the Prince Regent to be cructed at Brighton

Walajapet Town.—Head quarters of the takeh of the same name in North Arcot Instrict, Madras, situated in 12° 56' N and 79° 22' E, 3 miles north of the Palar river, and 68 miles from Madras. It is a decaying place, the population in 1901 (10,067) being less than it was thirty years before. It was constituted a municipality in 1866. The minicipal receipts and expenditure during the ten years ending 1903—3 averaged Rs. 14,700 and Rs. 14,400 respectively. In 1903—4 they were both about Rs. 17,000. School fees and the house and land taxes form the principal sources of moone. The town is remarkably well built and neatly arranged. It was once the trade centre of the District, and its decline is due to the opening of the Madras and South Indian Railways, neither of which touches it, and both of

which have led commerce to other rivals. Weaving in silk, cotton-dyeing, carpet making, and the manufacture of oils chiefly employ the people. The satin cloths of the town are still excellent, but the carpets have been spoilt by the introduction of amiline dyes.

Wandiwash Town.—Head quarters of the tiluk of the same name in North Arcot District, Madras, situated in 12° 31' N and 79° 36' F, 19 trules from Acharapakkam station on the main line of the South Indian Railway. Popul lation (1901), 5,971 Wandiwash is historically interesting as the scene of several important operations in the Camatic Wais of the eighteenth century. The fort belonged to a member of the family of the Nawab of Arcor, In 1759 it was attacked by Major Lawrence, and in 1757 Colonel Anderson destroyed the town but failed to capture the fort. The French garrison twice in that year repulsed the English. A more energetic attack under Brereton in 1759 was also unsuccessful dutely after this the French soldiers mutmied, and, though they were eventually pacified, the fort surrendered to Coote before the end of the year. In 1760 the French commanded by Lally, with 3,000 Marathas under Bussy, appeared before the town, and m the putched battle that ensued they were utterly routed by Coote, and Bussy was taken prisoner. This victory was in its consequences the most important ever won over the French in India. In 1780 Lieutemant Flint by a bold stratagem saved the fort from falling into the hands of Haidar Als, and with very inadequate means held it for nearly three years against every device of the enemy. Twice be was reheved by Sir Eyre Coote, and twice at least he repelled most vigorous assaults.

SALEM DISTRICT

Salem District.—An inland District in the south of the Madray Presidency lying between 11° 1 and 12° 54 N and 77° 29 and 79° 2 E with an area of 7 530 square miles. It is bounded on the north by Mysore and North Arcot, on the east by North and South Arcot and Inchinopoly, on the south by Trichmopoly and Combators and on the west by Combators and the State of Mysore.

Salem is made up of three distinct tracts of country, which were formers known as the Ballighit, the Baramanal, and the The Balaghat, consuming of the Hosur Like 19 utuated on the Mysore table land and is the most clevated portion of the District the greater part of it being 3 000 feet above tealestel. The Bramahal is the next step in descent, and its extensive plam comprises the Krishnagur, Dharmapur, Thuppateur, and Uttangaru tibuls Of these, krishnagin slopes from 2,000 down to 2 300 feet, which is the general level of the other three. An almost unbroken chain of hills, traversing the District a little south of its centre from east south east to west north west, separates this tract from the The latter comprising the Salem, Aftir Annuklal, and liruchengodu taluks, is, as its name imports below the Eastern Chais, and descends from a maximum of about 1,200 feet in the Salem talak to the level of the plants of the Carrietic on the east and south I he southern falaghat is marked by three most striking masses of rock, all alike more or less bare of vegetation namely the walled and battlemented height of NAVAELAL, the crescent topped hill fortress of Tirle HI AGODU. and the great, square, white mass of Sankaribrus over a saddle on the north western base of the Kottannalais. an unsuspected glad guarded by a huge statue of Hanuman, descend, into the gardens of Namagarapet and Rasspur Imerging from this valley, which is shut in by the Boda makers, one reaches the higher plateau of the northern Talaghet, studded from end to end with numerous isolated hills ticularly striking are the serrated ridge of the Kanjawalai, outlined sharply against the south western sky, and the neaks of the Godumake which rise boldly on the east towards the

Atur valley Much mineral wealth has hidden in these hills, their iron is exceedingly rich, and valuable beds of white magnente, which local tradition declares to be the bones of the legendary bird Jatavu, crop out among the hills on either aide of the railway before it enters Salami City

I he great mountain screen above referred to, which stretches across the District with the SHEVAROUS as its centre, is pierced by four passes giving access from the I alaghat to the Baramahal The easternmost of these is the Kottapatti Pass leading to the village of the same name at the head of a lovely valley stretching away to the historic ghat of Changama (Chengam) through which flows the trade from the north into the ancient mart of LIRUVANNAMALAI This Kottapatti Pass separates the Ten andamalas from the range of the KALRAYANS. On either side of the Shevarous is a ghat leading to the two great landmarks of the Baramahal country. The trunk read over the eastern, or Mangaradi ghat, peases to the left of the Chriteri hills and winds round Harur towards the sacred heights of Tirthamalai (3 500 feet) On the west the railway, tosling up the Morur path ghat, keeps the Vattalamaks to the left and runs past the sharp peak of Mulkanur (4,000 feet) The westernmost, or Topour Pass, leads to the rolling downs of Dharmapuri

On the north east of the Baramahal the Invades hang like a curtain. From the breezy top of kambugudi (3,840 feet) there is a fine view of the fertile Alangaram valley, of which Munro wrote 'There is nothing to be compared to it in Lingland, nor, what you will think higher praise, in Scotland' A rifle shot carrier across from the Javadia to the Velagur, which is more healthy, and deserves to be more popular, than the other minor hill ranges. An extensive view of the whole Baramahal country is obtained from this hill. On the right gleam the white ministers of Vaniyambadi, above the dark groves of coco nut that stretch away on both sides of the Palar. To the left the great red plain beaves into billows, and its many rocky hills seem to surge against the mountain guard of the Balaghat, from which the country rises tier over tier to the Mysore plateau

The Melagura, the chief hill range of the Balaghat, attain a height of over 4,500 feet at their southern extremits Sandalwood and valuable timber abound here, as well as in the Denkanikota jungles. The rolling uplands of the Balaghat or Hosur talks are admirably adapted for pasture, and abundant forage is available at the Cavalry Remount Depôt at Mattagra, which, with its paddocks and hedgerows and the

green lanes between, recalls the familiar features of an English landscape

The river systems of Salem are four n number. The chief stream in the District is the Cauvery, which flows along its western and southern boundaries separating it from Combatore, and is joined by the Sanatkum-tranadi, the Sarabhanganadi the Turimanimuttive the Karuvatt-Tr, and the Anjär rivers. The second system may be called the Vall Tr system, to it belong the Variahtanidi and the Swetanidi, which drain two parallel valless running east and west in the Atur tiled the former carrying off the dramage of the Kalifavans and the latter that of the Kollasmalars and Pacharmanas is the third system is that of the Ponnary Tr, which flows through the Brilaghat and Barramahal to the cast coast. The last and smallest system is that of the Palar which traverses the northern corner of Timippattur

Geologically, Salem is covered with guersses and crystalline schools belonging to the older and younger Archaeans of Southern India The quartz magnesite schists of the kanjumalar, Tirtha mala: Kollamalais, and the Javadis, bads of great thickness with an average of 40 per cent inchness in iron, are included in the latter class, and the former is represented by the lower platform of mixed gnesses, chiefly micaceous and homblendic partially laid bare in the plains round 5 ilem city mayore photonic Archaeans associated with the mixed gnesses comprise the charnoclate sense of granuling, well developed in the ranged masses of the Shevarous and elsewhere, on the eastern borders of which occurs a line of exposures of corundum—the biotite gnessore granite of the Baramahal, which builds the sharp cones and drugs of that country, and the mottled gness of Uttan, and The only rocks of later age than these Archaeans are a scattered set of vounger intrusives of considerable interest, including an enormous number of rock types. Among them are the durites, the magnesite of the Chara Hills, and some acid pegmatites containing good mica

Varying so considerably in altitude and in ramfall the District naturally contains a wide range of flors. On the lowest levels are the usual Coromandel plants, while at Yracaup on the Shevaroy's English fruits, flowers, and vegetables flourish wonderfully, and the wild flora is almost that of zones of heavy raiofall.

The District is not rich in large game. Tigers and bears are met with in the hills adjoining the Cauvery in the Hosiir and Dharmapum kilichi, and an elephant occasionally wanders across

from the Combatore side. Bears and leopards have been almost exterminated on the Shevarova, and deer are now unknown there. The Malaryaha on all the hill ranges have enormously reduced the quantity of small game, but the jungles in the plains still abound with hares, partridges, quail, and spur fowl.

In Hour, which is on the Mysore table land, the chinate is C as pleasant as that of Bangalore, while in the lower Talaghat a section the heat is as oppressive as in the adjoining District of Trichmopoly. The mean temperature of Salem city is 82° F. The Sheraroys from their elevation naturally boast the coolest climate in the District, the thermometer rarely rising above 75° F in the hottest months. The other hill ranges approach the Shevaroys in this respect, but they are not free from the drawback of malaria.

The rainfall is fairly evenly distributed through the plains, I except in the two southernmost telesis of Namakkal and Tiru chengodu, which get an average of only 30 inches annually as compared with the District average of 32. The Shevaroys are quite exceptional, receiving nearly double as much as the rest of the District.

Floods on a large scale are unknown. In the autumn of 1874 heavy freshes occurred in the Palur, washing away the railway line in several places and sweeping away a portion of the town of Vaniyambadi. This disaster was repeated on a larger scale in November, 1903 when owing to the bursting of tanks in Mysore, the river rose even higher than before and two suburbs of the town were completely ruined.

The District was note: an independent political entity early times the north of it was ruled by the Pallavas, while the a south was included in the Longu Lingdom. In the mith cen i tury the Chola kings annexed the whole, and subsequently it passed under the Housele Ballales. In the fourteenth century it was conquered by the Hindu kings of Vijayanagar, whose sway was acknowledged till the beginning of the seventeenth century, when the Dutrict passed under the hail rulers of From 1652, parts of it began to fall under the power of the riving Hindu dynasty of Mysore, till the whole was absorbed by Chikka Deva Raja the greatest of them, about 1688-90 In 1761 Haidar All usurped the Mysore throne In 1767 the English reduced portions of the Baramahal and carried on, both within and without it, a desultory warfare with Haidar, in which the latter had the advantage. By the treaty which concluded the war with Haidar's son Tipu in 1792 the

whole District, excepting the Hostir tillul, fell to the Company. After the fall of Seringapatum and the death of Tipu in 1799, Hostir also passed to the English.

The chief objects of antiquarian interest in the District are the old fortresses at Krishnagiri, Namarkal, and Sankari-DRUG.

Except Coimbatore, Salem is more sparsely peopled than any other of the more southern Districts of the Presidency. The numbers at the four enumerations were as follows: 1,966.995 (1871), 1.599.595 (1881), 1,962.591 (1891), and 2,204.974 (1901). The decrease of 19 per cent. in 1881 was due to the severity of the great famine of 1876-8; but the recovery was rapid during the ten years ending 1901, the rate of increase being higher than in any District except Kistna. Salem consists of nine tāluks, the head-quarters of which are at the places from which they are named. Statistical particulars of them according to the Census of 1901 are appended:—

	\$	Fumber of			L.	3 0 5	 8
Taluk.	Arr. is 4	E E	Villeges	Populado	Population agent	Mary man	Name of the state
Hoste	1,417	1	750	184,971	182	+ 18-7	6,6,6
Endnagiri .	659	Ìı	507		_	+15.2	6.198
Dhamaperi .	941	Ţ	₽ [®] O	060,030	119	+ 15-3	6.336
Tereppatter .	539		523	205.016	382	+ + 1	10,263
Uttangarai	910	١.	451	149-419		+ 154	4314
Salem	וייטו	1	475	470,181	+19	+ 19.7	21,613
Autr	847	Y.	173	199,475	137	+ 89	7,159
Nimakiai.	715	3	356	31 3,R95	439	+ 4-6	14,613
Tirochengodu .	637	1	165	289,717	455	+ 16-5	7,284
District total	7,530	7)	3,782	1,104.974	293	+11:4	R4,385

The chief of the eleven towns in the District are the three municipalities of Salem, Tiruppattür, and Vāniyambādi. Of the population in 1901, 2,116,768, or 96 per cent., were Hindus; 68,497 were Musalmāns; and 19,642 Christians. Tamil is the mother tongue of 71 per cent. of the people, and Telugu is spoken by 19 per cent. In Houir Kanarese is the vernacular of a considerable proportion.

As elsewhere, agriculture is the predominant occupation. The largest castes are all agriculturists; the most numerous being the Pallis (516,000), Vellalans (396,000), and Paraiyans (185,000). Brahmans are unusually few, numbering only 15

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an every 1,000 of the population, or less than in any area except the three Agencies in the north of the Presidency and the Nilgins. The shepherd Kurumbans (50 000) and the Kuravans, a wandering people who have a bad reputation for crime, are more numerous in Salem than in any other District

Of the total Christian population in 1901, 18,701 were (natives of India. Of the various sects, the Roman Catholic, t greatly preponderate, numbering 17,624. The foundation of the Christian Church in the Distinct was laid in 1630 by the celebrated Robert de Nobih. He landed in India in 1606, and, after founding the well known mission at Madura, furned his steps to the north. He passed by Trichinopoly to Senda. mangalam, which was then the capital of a ruler called Rama. chandra Vaik, tributary to the king of Madura. This chief welcomed the mismonary and gave him a site on which to build a church. De Nobili then pushed on to Salem, where after a period of trouble he succeeded in arming over the ruler there, who was also tributary to Madura, in 1630 church was built in the place about this time. The mission then developed towards the north, and a centre was established at Kodur in the Dharmapuri talket. By the middle of the eighteenth century the number of converts had reached a large total, but the suppression of the Jesuits in 1773 checked the edvance of Christianity, and when Tiph Sultan ascended the throne of Mysore he ordered the Kotlur church to be destroyed and deported half the Christian population to Mysore where he sought to convert them forcibly to Muham mademum. The work, however, went on in apite of these difficulties and at the present day there are Catholic mission aries in every part of the District. Of the Protestant missions the most important is the London Mission, which began work m Salem as early as 1827.

Agriculturally, the northern and central sections of the a District are generally inferior in soil and situation to the southern or Talaghat section. The prevailing soil everywhere as red sand, which occupies as much as 8s per cent of the whole area. Thus, however, is not the ordinary barren red sand of Trichinopoly and South Arcot, but is of superior quality and as good as red loain. The first three months of the year are usually ramiless, and the fall in April is not great. The May rainfall, the early showers which precede the south west monsoon, is usually copious and marks the commencement of the cultivation season, which goes on through the south west monsoon, on which the District mainly depends,

and the north east rains. The months during which the largest sowings are made are July, August, and October, but over the greater part of the western takens a wide area of crop is put in even before June.

A considerable portion of the District is composed of samus dars and team land, which covers 2,052 square miles out of the total area of 7,530. Returns are not available for the samundaris, and the area for which statistics are collected is 5,675 square miles. The following table gives details for 1903-4 areas being in square miles.—

Talak	Alor Secondo	Pocests.	Cult vable u nate	Culton steed	Irr guied
Hoser	873	388	199	328	16
krakagin	377	64	22	126	27
Dhemepun	7,9	293	62	#19	9,
Tureppettor	371	149	6	129	17
Uttengum	764	304	9.	38 0	15
Sulem	953	38τ	20	446	45
Αlm	789	114	133	141	₿2
Name-kal	374	•	72	110	49
1 muchengodu	436	19	25	3=6	22
Pustrict total	- 67p	1 6 ₅ 6	<u> </u>	# 37~	301

The characteristic food grains of the District are rags (Elessian arracina) and combin (Pransistion typhodesian), the former, generally speaking, being most prominent in the northern and central sections and the latter in the northern portion. The area under them in 1903-4 was 431 and 516 square miles respectively. Rice is grown largely in Namakkal and Atm. The tormer talks contains a large area of plantam and augus cane cultivation, and the latter of areas nut and coco nut. Of special crops, the coffee on the Shevaroy Hills is the most important. It covers an area of 9,000 scres, most of it grown under European supervision. In Atm 3,000 acres are occupied by indigo, and in the Hosur talks mulberry is grown to a small extent for rearing silkworms.

After the great famme of 1876-8 there was a considerable decrease in the area of the holdings in the District the decline being as much as 20 per cent. Since then, however, the country has rapidly recovered, and the area now occupied is one fifth more than it was before that famme. No marked improvements can, however, be said to have been made in the local methods of agriculture. Only in the extension of well-

regation has a real advance been made. During the sixteen years ending 1904 nearly at lakes has been advanced to ryots under the Land Improvement Loans Act, and this has been chiefly laid out in digging or repairing wells.

Owing to the number of hill ranges and the large area of C waste land affording pasture the District is generally rich in p hve stock This is especially the case in the Hostir table, where the chimate is favourable to the growth of grass, and almost every ryot keeps attached to his holding a small patch of grass land which is reserved for pasture. The chief breeds of cattle are three namely, the Mysore, the Alambadi, and the Turnchengodu The first is raised in the forests bordering on the Canvery in the Hostir takek, and the second in the forest land of the Pennagaram aide of the Dharmapuri taluk bullocks of both these breeds are m much demand for draught, and command good prices at the great cattle fairs of the southern Districts. The cows of the Fruchengodu breed, though small, are good milkers. The sheep are of the two well known classes called the Kurumba and the Semmen. The former is woolly and black or brown, the latter, bury and reddish in colour Government encourages pomy breeding by maintaining stallions at different stations in the District, and there is a Remount Depôt at HosUR

Of the total cultivated area of the spotmass and 'mmor I sadas' land, 291 square miles, or 14 per cent, were irrigated in 1903-4. Of this, 122 square miles (42 per cent) were supplied from wells, 111 square miles (38 per cent) from tanks and only 44 square miles (15 per cent) from canals. The Cauvery is of little use for irrigation till it enters the Namakkal takes. Here three channels of a total length of 49 miles take off from it, and convert more than 7,000 acres, which would otherwise be barren, into a fertile area that has with justice been called the garden of the District

The tributanes of the Cauvery have not the same constant flow as the main stream, and the land watered by them is hable to failure of crops, owing to short supply of water. The Veliar river system in the Attir talak possesses a perennial supply and impates an area of 9,400 acres. The Pomonyär, with its tributanes, waters 26,000 acres, including both direct and indirect impation. Of the 1,842 Government tanks in the District the only one large enough to be worth mention is the Barur tank fed by the Pomonyar, which imagines about 3,000 acres. Of the tanks 79 per cent are small reservoirs supplying less than 50 acres each, and 32 per cent of these imagine less

than 10 acres each. In these small works the supply 15 very precamous and has to be supplemented by wells to enable a 'wet' crop to be raised. Accordingly, we find that there are \$5.152 wells in 'wet land, a larger number than that in any other District in the Prendency except North and South Arcot. Wells in 'dry' land are also numerous, numbering 53,878, a figure exceeded only by Coumbatore, and North and South Arcot. They are most numerous in the Talaghat and least so in the Ralaghat. The garden land supplied by them is cultivated with great skill, and the crops raised are heaver and more valuable than those impated from channels or tanks. In the Rasapur aide of the Salem taket this garden cultivation is especially excellent.

The chief forests form a horse shoe belt across the District from west to east, beginning on the mass of hills bordering the Canvery and thence extending along the Shevaroys in the centre of the District to the Chitteri and Kalrayan Hills Pachaimalas and Kollumalas form a separate block in the south eastern corner of the District. The area of 'reserved. forests is 1,460 square miles and that of 'reserved' lands of aquare miles. Sandal wood flourishes on almost every hill range, but is most abundant on the Javadus and the Chittens at an altitude of 2,000 to 3,000 feet. Teak, blackwood (Dul. bergia latifolia) acha (Hardinichia lenats), vengas (Pterocartus Marsupum), Terminalia tomentosa, satin wood (Chlores) lon Sweeterns), Assessment latifolia, and other timber trees grow to a moderate size in all the forests, while along the streams m the hills some large specimens of Terminalia Arjuna are found. At the foot, and on the lower slopes, of all the hill ranges on the eastern side of the District are numbers of tamarind trees growing to a remarkable height and time forests within 15 miles of the Madras Railway were until recently worked principally for the supply of fuel for the line. The work in the Forest department has now become so heavy that an additional Forest officer has been posted to the District

Salem is not in minerals. Gold, iron, mitpetre, mica, commidum, rubies, magnesite, and crystalline limestone have all been found. Dr. Heyne, an Indian medical officer who toured throughout the country in the early part of last century, refers to some gold mines at Siddharkovil, a place conjectured to be near Rayakottai. Gold used to be found also at the foot of the Kanjamalai hills, people washing for it in the streams after the name. No gold in workable quantities is found now Licences have been taken out for prospecting in the villege of

Kanaväypudur in the Salem tälad and in the Kurumbapath 'reserved' forests of the Shevaroy Hills, but the search has been without result

Magnetic iron ore of an excellent quality is found in practically mexhaustable abundance in the District, but the scarcity of chesp fuel prevents its utilization. The iron beds occur chiefly in five groups the Kanjamalai group at the hill of the same name, the Godumalar group in the Salem Atur valley, the Singipatti group, 4 miles south of the Godumalai, the kolksmales Talamalas group in the castern part of the Namak kal tabuk, and the Turhamalas group in the Uttangaras tabuk In the villages in the vicinity of these beds the ore is smelted. in the primitive Indian fashion, but not to the same extent as formerly when there was no competition from English wrought Salem iron was famous in the early years of the last century, and a company known as the Porto Novo Iron Company worked the ores on the Kanjamalar hills at foundness established at Porto Novo m South Arcot and at Pulampath, on the Cauvery in the Trinchengodu taluk. As the jungles diminuhed, chargoal for smelting had to be brought from longer dutances, and the working expenses became too heavy to allow of any profit. The company finally ceased to exact about 1867. At present two firms hold prospecting licences for the Kanja. male iron, but nothing has yet been done to develop it

Saltpetre gives work to three refineries at Mohantir in the Namakkal takat. Mica mining operations were conducted for a short time in the villages of Chinasmanah and Cholasmanan, but have ceased. Commitm is extracted under a mining lease at Komarapalarvam in the Numakkal takat. In a number of other villages also commitm is found, and the right to quarry for it is annually leased out by auction. Along with the commitme, rubies are sometimes discovered. Magnetic is being extracted under a mining lease in five Government villages and one jagur village in the Salem takat. The area leased as 1,131 acres, and in 1904 the out turn was 174 tons in Government land and 1,141 tons in jagur land.

The chief industry in Salem is weaving, which is carried on a in every town or village of any importance. Pure silk cloths and good white cloths with all borders are woven, especially in Salem city, and exported to other Districts, but the industry is now on the decline, owing to the competition of English machine made goods. Kurumbans or shepherds weave coarse blankets from sheep's wool all over the District, and a supersor variety of these articles is made at Latitvadi in the

Nămal kal ishir Indigo is manufactured in fifty-five factories in Attir and two in Tiruppattiir Several tanneries for the curing of hides exist at Tiruppattiir, Vaniyambādi, and elsewhere I he latter town in a centre of the Labhais, a mixed race of Musalmans who do most of the skin trade in the Presidency Potstone utennils are made at Omaltir in the Salem think

Rice, wheat, castor oil seed, castor oil gift, cloth, betel leaves, plantams, areca unt, indigo, tamarind, mangoes, roffee, and cattle are among the chief exports of the District. Salt, pepper, tobacco, varn, and ground-outs are some of the principal articles imported. Cattle are driven from Hosur and Dharmapuri to the great cattle markets in South Arcot, Trichmopoly, Madura, and Tinnevelly. The mangoes go to Madras and Bombay (where they are sold as Bombay mangoes), and betel leaves and plantams are sent to the same places. The internal trade of the country is carried on at weekly markets, which are held at most of the large villages and form quite a feature of social life in this District. They are usually managed by the local boards, which in 1903–4 collected Rs. 15,800 in market fees.

The south-west line of the Madras Radway enters the District near Vamyambad and runs through to the Causery, which it crosses by a fine bridge near Erode. A narrow gauge (2) feet) radway between Morappur and Dharmapuri is under construction, and a similar line between Taruppattur and Krishnaguri has recently been opened. The District has the largest inleage of roads (2,020 miles) in the Presidency except Combators, but only 58s miles are metalled. There are avenues of trees along 1,311 miles of road, which are managed by the local boards.

During the last century the District experienced two famines, in 1833 and 1876–8, and senious scarcity in 1866 and 1891–2. The most terrible calamity was the famine of 1876–8, and during its height as many as 369,137 of the population were being gratintously fed. The expenditure on relief works was 28 lakhs, on gratintous rehef 32 lakhs, and the indirect expenditure and loss of revenue amounted to a further sum of 84 lakhs.

The Listrict is arranged into four administrative subdivinous, two of which are usually in charge of members of the Indian Civil Service, and the other two of Deputy Collectors recruited in India. These are Hosir, comprising the Hosir, Krishnagan, and Dharmapun tablets, Tumppattur, comprising Tumppattur and Uttangara, Nāmakkal, comprising Nāmakkal and Tiruchengodu, and Salem, comprising Salem and Attir

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A takulder is in charge of each take, but in only four takes is there a stationary sub magnitude for magnitude work, which in the other five is entrusted to a skeristader magnitude. Ten deputy takulders are subordinate to the takulders. There is the usual staff of superior officers, with the addition of the second District Forest officer already mentioned.

Civil justice is administered by the District Judge, aided by (a Sub-Judge who sits for part of the year at Salem, and by five District Munisis. Criminal justice is dispensed by the Session's Court, the divisional magnetiates (who have the usual first class powers), and the subordinate second class magnetiates. Much of the crime is committed by the Pallis and the Kurayans already referred to. Dacosty has been more than usually prevalent of late.

The land revenue history of Salem District is of considerable 1 interest as the beginnings of the systems system were evolved. The old native method was to rent out the country by villages or other small areas to the village headmen or other lessees Captain Read, the first Collector of the District, took charge in 1702. Government instructed him to effect a settlement for a term of five years with the cultivators themselves. To do this Read, with the co-operation of his Assistants, Graham and Munro, surveyed all the land in the District and fixed a money assessment on the fields, the operations being completed in five years (1793 7) the time the survey was in progress a change had come over Read's opmions, and, on December 10, 1796, he assued his famous order which gave ryots the option of holding their land either under the old lease system or under annual settle. ments the latter mode allowing them to give up early in each year whatever land they might not care to cultivate that year, and to retain for any length of time such land as they wished, subject to the payment of assessment for it. This was the germ of the *ryelwars* system, but the revenue system of Bengal, where Lord Cornwallis had introduced permanent settlement, was extended to Madras by the Government of India In 1802 Read a rysissor; settlement was cancelled by the appointment of a special commissioner, who, in the next three years, parcelled out the District into 203 suttaki (estates), which were sold at auction to the highest badders and held on fixed rents. This same nears system was a facture. Owing to the high rates at which the rents were fixed and the low margin of profit remaining to the auttakdass, the sums payable by them fell into arrear, their suttakt were in consequence

attached and sold, and for want of other bidders Government had to buy them in. The estates thus broken up were then administered under the rystwars system. The evil of excessive assessments was partially reduced by orders usued in 1816 and 1818, but systematic reduction was not effected before 1850, when the Government sanctioned proposals of the Collector for a percentage abatement in the old rates reduction gave a wonderful impenis to cultivation, and the land revenue rose with a bound. In 1860 a scientific survey of the District was begun, and in 1871 a new revenue settle ment was mangingted. The survey showed that the extent of holdings in the old accounts had been understated by 15 per cent, and the settlement resulted in an increase of revenue amounting to 4 per cent. The average assessment per acre on 'wet land was Rs = 15-1 on the north of the District and Rs 5-1-9 in the south, the maximum being Rs 10 8-0 and the mymmum Rs 1-4 o On dry land the average amessment was R o 14 5 in the north and Rs 1 5-6 in the south, the maximum being R₂ 5 and the minimum 4 armas per acre-This settlement is now being revised in five talkets by a resome, and a resuttlement. The revenue from land and the total revenue in recent years are given below, in thousands of пиреез —

	1460 t	ziligis 1	1 9 00-1	P905 4
Land revenue Total revenue	35,40	26 70		19 01
	31 40	<u> 59 09</u>	47 67	49 39

Local affairs are managed by a District board and four table boards, the jurisdictions of the latter corresponding to the four subdivisions above mentioned. The total expenditure of these bodies in 1903-4 was 4.27 lakks, the chief items being roads and buildings (1.85 lakks), education (Rs. 71,000), and medical services (1.30 lakhs). The chief source of income is, as usual, the land cess. The towns of Salem, Timppattur, and Vänivambäch are minicipalities and are excluded from the control of the boards. The number of Unions is thirty four.

The police force is managed by a District Supermitendent aided by an Assistant. There are 102 police stations, and the force in 1904 numbered 1,285 constables and head-constables, working under at inspectors, and 2,475 rural police. Besides the Salem jail, which is one of the seven Central present of the Province and can hold 548 convicts,

there are 18 subadiary pails, which can collectively accommodate 201 male and 118 female prisoners.

In education Salem is very backward. The proportion of I the population who can read and write is scarcely more than half the average for the southern Districts as a whole, and the only areas in the Madras Presidency which at the Census of 1901 contamed a smaller percentage of literate persons were I reagapatem and the three Agency Tracts Of every 1,000 persons in the District, only 38 were classed as literate number of hterate persons among the males and females of the District amounted to 74 and 4 per thousand respectively Only 5 per cent of the males had received any education in English, and the number of girls (including all the Europeans and Eurasians) who could read and write that language was only 500 Education was most advanced in Turuppattur, Salem, and Namalikal tuluke, and least so in Uttangaran and Firuchengodu The total number of pupils under instruction m 1880-1 was 9,316, in 1890-1 23,171 m 1900-1, 31,976 and in 1903 4, 37,231. The number of educational institutions of all kinds in the District in 1904 was 972, of which 847 were classed as public and the remainder as private the former 11 were managed by the Lducational department, 197 by the local boards, and 26 by the municipalities, while 288 were aided from Local funds and 325 were unaided These institutions included the municipal college at Salem 25 accordary, 818 primary, and 3 training and other special schools. The number of guls in these was 4,023. As usual, the majority of the pupils were only in primary classes. Of the male population of school-going age 15 per cent were in the primary stage of instruction, and of the female popul lation of the same age 2 per cent. The corresponding percentages for Musalmans were 72 and 12 Panchama pupils numbering 1,344 were being educated in 51 schools maintained specially for them. The total expenditure on education in 1903-4 was Rs 1,73,000, of which Rs 69,000 was derived from fees. Of the total 71 per cent was devoted to primary education

The District possesses 11 hospitals and 15 dispensaries, 1 with accommodation for 114 m patients. In 1903 the number of cases treated was 203,000, of whom 1,400 were in-patients, I and 7,100 operations were performed. The expenditure was Rs 56,000, met chiefly from Local and minicipal funds

In 1903-4 the number of persons successfully vaccinated t was 27 per thousand of the population, the mean for the t

Presidency being 30 Vaccination is compulsory in all the minicipalities and Umons, and in the village of Komara palaryam in the Tiruchengodu taluk

[H Le Fanu, Dutrict Manual 1883]

Hosur Subdresson — Subdivision of Salem District, Madres, consisting of the Hostin, Krishnichki, and Dhan Mapuni Sibolic

Hosur Taltuk - Northern taltels of Salem District Madras lying between 12°9 and 12°54 N and 77° 29 and 78° 16 E. with an area of 1,217 square miles. The northern and western portions are on the high level of the Missore plateau, and form a have and uninteresting tract. In the south and east the country is full of beauty being a series of plateaux sustained by lines of forest clad hills and sinking by rapid descents down to the valley of the CAUVERY. The taluk is the most thinly peopled portion of the District but at the Census of 1901 it contained a population of 184,971 compared with 155,768 m. 1891 the mercase, at the rate of nearly 19 per cent, being the most rapid in the District. Much of the country is covered with jungle, and is the rearing ground of the so called Mysore b eed of cattle. The climate on the table and is cool and persont, resembling that of Bangalore. The tabul contains one town, Hostix (population 6695) the head quarters and chief town of the subdivision. The number of villages is 7.0. The demand for land revenue and cesses in 1903 4 was Rs 2 40 000

Krishnagiri Taluk — Taluk of Salem District Madras, lying between 12° 14 and 12° 43 N and 77° 58 and 78° 30 L with an area of 659 square miles. It is situated in the border land between the Mysore plateau and the great plains of the Carnatic and is encureled by hills the summits of which are often crowned with ancient fortresses. The taluk is traversed by numerous streams which take their rise in the surrounding hills and flow into the Powers are in 1901 the population was 175 300 compared with 152,128 in 1891. There are 507 villages, and only one town Krishwagiri (population, 10 446), the head quarters. The demand for land revenue and cesses in 1903–4 was R5 2,25,000.

Dharmaguri Taluk — Tuluk of Salem Dutrat, Madras, lying between 11° 54 and 12° 27 N and 77° 41 and 78° 18 L, with an area of 941 square miles. The Cauvery mer bounds it on the west and is joined by the Sanatkumaranadi, which flows through the north western portion of the talks. Near the junction of these mers are the falls of Hogenskal or the

'smoking rock' The population in 1901 was 205,030, compared with 178,442 in 1891. There are 580 villages, and only one town, DRARMAPURI (population 8,102) the head quarters. The demand for land revenue and cesses in 1903 4 was Rs 2,54,000.

Tiruppattur Subdivision.—Subdivision of Salem District, Madras, consisting of the TIRUPPATTUR and UTCANGARAL tabuks

Thruppattur Taluk - Taluk of Salem District, Madras, lying between 12° 17 and 12° 47 N and 78° 24 and 79° 2 E, with an area of 539 square miles. The lower portion is composed of four valleys of varying size. The largest of the four is the bare southern stretch of country through which the Pambur glides Thus 15 in striking contrast to the second, the nch valley of the PALAR, thickly wooded with coco-nut groves with here and there a patch of com fields. Omite different features are presented by the other two valleys the rugged Vellakuttin hollow, lving between the triangular shaped Yelaguri and the hog backed Nekkananamalai, and the fertile Mangayam basin, bounded on the west by the Yelagari and on the east by the picturesque Javania. This last is the fairest of all the valleys in the District, and its beauty and luxurance won the special affection of Munro when he served in Silem. The population in 1901 was 205,986, compared with 188 825 in 1801. There are 323 villages, and two towns of commercial importance namely, Tirtury artur (population, 18,689), the head quarters of the #### and subdivision and VANTAMBADI (12,005), the station of a deputy taksidar These two towns include a large Muhammadan community, and the taker contains the largest number of the followers of that faith in the District. The demand for land revenue and cesses in 1903-4 was Rs 2,00 000

Uttangara.—Central talus of Salem District, Madras lying between 11° 47 and 13° 25 N and 78° 13 and 78° 44 E, with an area of 910 square miles. Next to Hosur it is the most thinly peopled tract in the District, the population in 1901 being 159,419, compared with 138,113; in 1891. The talus generally has a bad name for malaria. There are 451 villages, including Uttangarai (population 1 073) the head quarters. The demand for land revenue and ceases in 1903-4 amounted to Rs. 2 07,000

Salem Subdivision.—Subdivision of Salem District Madres, consisting of the Salem and Attra tillular

Salem Tähuk,-Central teled of Salem District, Madras,

lying between 11° 23 and 11° 59 N and 77° 46 and 78° so E, with an area of 1,071 square miles. The greater part is composed of a sense of valleys from z to ze miles wide shut in by lofty ranges of hills, the chief being the SHRS AROYS, on which stands the sanitanum of YERCAUD, the Toppur hills, and the Tenandamalai on the north, which separate the talks from the BARAMARAL. The chief river is the furu manimutter which rises in the Shevarovs and flows through the town of Salem to Tiruchengodu and on to Nimakkai where it enters the Carvary But the mainstay of impution 15 the wells siml, by the roots themselves, which are more mimerous here than m any other portion of the District The talks had a population of 470,181 m 1901 as compared with 417,370 m 1891. It contams 476 villages and two towns SALEM CITY (population, 70,621), the head quarters of the tabul and District and RASIPUR (11,512), the head quarters of a deputy takuldar. The takuk is rich in immerals. containing the famous iron deposits of Kanjamalai and the magnetate of the Chalk Hills. The demand for land revenue and ceases in 1903-4 amounted to Rs 6,41,000

Atur Think.—Table of Salem District, Madras, lying between 11° 19' and 11° 53 N and 78° 16 and 78° 51 E, with an area of 841 square index. The western part is broken by mimerous rocks and hills, but the east forms a wide undulating plain, separated by the valleys of the Vanishtanadi and Suctanadi rivers from the mountain ranges of the lensindamals and Kairavana on the north and the Koillanadas and Pachainalais on the south. The valley urigated by these rivers is a rich tract of country, and the himmant groves of areas palms are a striking feature of the river banks. The population in 1901 was 199,475, compared with 183,209 in 1891. There are 173 villages, and only one town, Atur (population, 9,673), the head quarters. The demand for land revenue and cesses in 1903-4 amounted to Rs 3 17,000

Mamakkai Subdivision.—Subdivision of Salem District, Madras, consisting of the Namakkal and Tiruchengodu tabels

Namakkal Taluk.—Taluk in Selem District, Madras, lying between 11° 1' and 11° 25 N and 77° 51 and 78° 30 E, with an area of 715 square miles. It is the most southerly taluk of the District and lies lower than the others, forming a wide plain broken on the north and east by the great range of the Kollaimalais. The Cauvery skirts it

and excircles a small tract of country, which, with its flour-hing groves of plantams, betel times, and coco nut palms, its sugar cane and green expanses of rice, rivals in richness the delta of Tanjore. The population in 1901 was \$13,895, compared with 300,047 in 1891. There are 356 villages and two towns, NAMARKAI (population 6,843) and SENDAMARGAIAM (13,584) the demand for land revenue and cesses in 1903-4 was Rs 4,47,000.

Turuchengodu Think .- Taluk in the south west corner of Salem District Madras, lying between 11° 15 and 11° 45 h and 77° 45 and 78° 12 E with an area of 637 square miles As compared with the rest of the District it is exceptional in its configuration, being a hot glaring plain, the monotonous aspect of which is relieved only by the hill fortresses of THRUCHEROODU and SANKARIDRUG, and the salver thread of the CAUVERY which winds to the west and south. The Firemammutter and Sarabhanganadi are the chief mers, but the cultivation is mostly unimigated and the taken is liable to attacks of scarcity. The population increased from 248,679. in 1891 to 189,717 m 1901 and the density is the highest in the District being 455 persons per square mile. There are 166 villages and only I town, Turuchengodu (population 8 196), the head quarters. The demand for land revenue and cesses in 1003 4 amounted to Rs 4 88,000

Atur Town—Head quarters of the taluk of the same name in Salem District, Madras, attuated in 11° 35 h and 78° 37 L, on the river Vanishtanach about 3 miles from the foot of the Kalkaran Hills Population (1901) 9 573 North of the town stands the old fort where the famous eighteenth century chieftam (theth Mudaliyar is said to have 1 ved in royal state, and where subsequently British troops were in garrison. As commanding the pass from Salem to Fyliga Drug, this post was of importance in the wars with Haidar Ah. It was captured by the British in 1768, after the surrender of Salem, and during the war with I ipu was again occupied by British troops. Indigo is manufactured in the place, which is also known for the carts made there

Chalk Hills.—The name given to a barren tract of hilly ground in the Salem takes of Salem District, Madras lying between 11° 42 and 11° 47 N and 78° 7 and 78° 12 E, north and north west of Salem city. Over the greater part of this area the surface is whitened by numerous veins of magnesite, the white colour of which has given the locality its name. The magnesite deposits cover about 12 square miles, stretching

from a little west of the railway north eastward to the foot of the SHEVAROYS. They are said to be the largest of the small number of such deposits which are known, and are now being worked.

Dharmapuri Town.—Head quarters of the take of the same name in Salem District, Madras, situated in 12° 8' N and 78° 10' E. It is connected by a road 18 miles long with the Morappur station on the Madras Railway, and will shortly be linked to it by a narrow gauge (2 feet 6 inches) railway. Population (1901), 8,102. The town was for some years the residence of Major (afterwards Sir Thomas) Munro. He planted a fruit garden here and constructed a square stone tank, and speaks affectionately of the place in his letters. The only trade of Dharmapuri is in akins. An old fort in the town played some part in the wars of this part of the country, but is now overgrown with prickly pear

Hostir Town.—Head quarters of the taket and subdivision of the same name in Salem District, Madras, attuated in ra* 44' N and 77° 50' E. The nearest railway station is Majur on the Bangalore branch of the Madras Railway, 204 miles by a good road. It is also easily accessible from Bangalore, 24 miles distant Population (1901), 6,695 the west of the town stands an old fort, mentioned frequently m the history of the wars with Tipd Suitin, and supposed to have been built for Tipu by an English engineer named Hamilton. He and two other personers were barbarously beheaded on the approach of Lord Comwalliss army in 1791 The divisional officers bungalow, locally called the Castle, was built at great cost by a former Collector, Mr Brett (1850-63), when Hosur was the head quarters of the Divinct. It is in the style of an English mediaeval castle, with turrets, battlements, a most, &c. It was purchased by Government m 1874 for Rs 10,000.

Four miles south of the town, at Matiagun, is the Hosur Remount Dépôt, from which the Ninth Division of the Army in India is supplied with cavalry and artiflery horses. This dates from 1828, and is in charge of a British officer assisted by a subaltern of the Army Veterinary department. The greater number of the horses are Australians bought from the importers at Madras. They are acclimatized and broken to their work at the dépôt. The place has a wonderfully English appearance, the grassy paddocks being surrounded with post and-rail fences and entered by gates of familiar pattern, and much of the work on the farm is done by horses instead of bullocks.

Jalarpet —Village in the Tiruppattur tābuk of Salem District, Madras, satusted in 12° 35 N and 78° 34 E Population (1901), 2 051. It is of importance owing to its tailway station, which is the junction of the south west line of the Madras Railway with the Bangalore branch. Of late vests it has also been the station at which passengers proceeding towards Madras have been examined to make sure that they are free from plague. Distance from Madras 132 miles, from Bangalore 87 miles.

Kalrayan Hills.—These hills are situated partly in the Attr and Uttangari tabels of Salem District and partly in South Arcot Dutrict, Madras, lying between 11° 38' and 12° 4' N and 78° 28 and 78° 49 E They stand east of the Lenandamalas, being separated from it by the Kottapatti valley, and are perhaps the largest in superficial extent of the hull ranges in Salem Dustrict Different portions of the range have local names, but the principal divisions are the Penya ('big') Kalrayana, which attain an elevation of 4300 feet, and the Chinna (httle') Kalrayans, reaching to little beyond a coo feet. The temple of Kan Riman in the Penya Kalrayans is held in great reverence by the Malaryalia who inhabit these hills. The range is parcelled out into five jugars or estates, the owners of which govern their tenants in a primitive and painarchal fashion. The fever on the range is so dreaded that few dwellers on the plams ever go up it, and consequently the people have retained many curious customs which differ from those of the low country are exclusively of the caste known as Malanville, but there is no doubt that they are not a distinct race, but merely Tamila who at some remote period took refuge in these hills from the troublous times through which the plants were passing

Kanjamalas.—Hill in the table and District of Salem, Madras, attested in 11° 37 N and 78° 4 E, and 3,238 feet in height. It is a conspicuous object in the Salem landscape with its hog backed shape and its screated ridges, and is widely known for its rich stores of magnetic monore. There are five separate beds of this, and the supply is almost mexhaustible. It often contains as much as 40 per cent of iron. Vast quantities of the ore of these beds have rolled down the indes of the hill, especially to the south, where not only does the extensive takes consist mainly of it, but the fields for one or two miles from the hill are thickly strewn with rolled fragments of all sizes. The Kanjamalas iron was the source of supply of the ill lated Porto Novo Iron Compans, which erected blast

furnaces at Porto Novo in the early years of the last century, but eventually collapsed. Since then no mining has been done here. Two firms hold licences to prospect in the hill, but no definite steps have yet been taken to extract any ore. At the foot of the hill is the famous temple of Siddharkovil.

Kaveripa tram.—Village in the Krishnegiri tākuk of Salem District, Madras, situated in 12° 26' N. and 78° 13' E., on the right bank of the Ponnaryān, 7 miles from Krishnacini. Population (1901), 4,954. The place was regarded as of some strategical importance in the Mysore Wars, as it commanded the entrance to Dharmapuri tākuk and the Carnatic, and was strongly fortified. In 1767 the English took it from Haidar Alt, but the latter almost immediately recaptured it and used it as a support in the next campaign until his withdrawal above the Ghāts. Colonel Wood then took the place, and in 1790 Colonel Maxwell made it his head-quarters before advancing against Tiptl.

Kolleimalais.—Hill range in the Namakkal and Atur tāluks of Salem District, Madras, lying between 110 10' and 11° 27' N. and 78° 18' and 78° 30' E. Unlike the Shevaroys, the Kollaimalais rise abruptly from the plains, and present the appearance of a flat-topped mass of mountain. But far from being a level plateau, the upper surface is cut up by numerous deep and narrow valleys, which render the scenery all along the 17 miles of its length variegated and victuresque. From the bold eng which rises on the north to a height of over 4,000 feet and overlooks the fertile plains of Attir, the eye travels over long, gently-sloping, sheltered glades down its north-east flank and rests on the concentric terraces of vivid green in the basin below. Farther south, across ridges whose sides are furrowed by deep ravines, by grassy meadows dotted with the glossy jack and the tall sago, along rocky passes and narrow defiles and wooded glens, is seen the great gorge which opens from the central basin towards the Turniyiir valley, and at its head the shrine in Valapurnad where Arapileswaran presides over the clear waters of the Aiyar before they descend precipitously into the low country at Puliyanjolai. Near the high ridge at the southern extremity, commanding a vast view of the Canvery in the foreground, and of the distant Ansimalais and the Palnis beyond, are the mins of an old bungalow testifying to the evil reputation for malaria which the Kollaimalais have long (perhaps not altogether deservedly) enjoyed among European sentlers. The population of the hills consists chiefly of the same Malaiyelis who are found on the Shevaroya, the Pachaimalais, and the Kalrilyans They cultivate considerable areas, but have ruined the forests, which were formerly of value, by promiscious felling

Krishnagari Town -Head quarters of the taluk of the same name in Salem District, Madras, intrated in 12° 31 N and 78° 13' E Population (1901), 10,446 It is connected with Tiruppattur on the Madras Railway by a road 24 miles long, and by a narrow gange (2 feet 6 inches) railway. The town consists of Krishnagin proper, the old town, and a new suburb called Daulatibad, where the Government offices are utuated. This last was built under the anspices of Munro and Graham, the first Assustant Collectors of the District. the present public bungalow was their rendence. The town is commanded by a precipitous hill fort rising 800 feet above Such were its capabilities for defence that it was never carried by as wallt. In 1767, and again in 1791, British troops attempted it unsuccessfully and on several occusions during the operations against Mysore it was necessary to block ide or mask it. In 1768 it surrondered to 4 blockading force, and was held by a British garrison for some years until restored by treaty. Grapes of an excellent quality are produced in the neighbourhood

Namakkal Town - Head quarters of the tolak and subdivision of the same name in Salem District Madria, situated in 11° 14 N and 78° 10 E, on the Salem Trichmopoly road, 31 miles from Salem city, and 20 miles from the nearest railway station, Karur on the South Indian Rulway Popul lation (1901), 6,843. The town is famous for its temple of Miniaguri Amman built at the base of the Namalkal rock. a great rounded mass of gners about 200 feet high, crowned by a hill fort vunble for miles round, and easily distinguished from the surrounding hills by its white colour. The battle ments are still in perfect preservation, being made of well cut blocks of the same stone as the hill itself, and secured to the rock by morrar. No mortar has been used in the higher courses, which hold together solely by their own weight and accurate fitting. Besides the fort a Hindu temple and a Muhammadan flagstaff stand on the top of the rock building of the fortress a ascribed by some to Rimachandra Naik, pehgar of Sendamangalum, and by others to Lakshminarasayya, an officer under the Mysore Raji. It is perhaps less than 200 years old, and was captured by the English in 1768, only to be lost again to Haidar Ah a few months later the foot of the rock on the other side he the drinking water

tank called the Kamalalayam, and a public garden. The town possesses a high school, the only Local fund institution of that class in the District. Ghr of an excellent quality is brought to the Namakkal market and expected to distant places.

Rasipur.—Town in the take and District of Salem, Madras, situated in 11° 28′ N and 78° 11′ E, in the fertile valley between the Bodamalais and the Kollamalais. Population (1901), 11,512. Silk and cotton cloths are extensively woven here, and large iron boilers for the manufacture of jaggery (coarse sugar) and brass and bell metal vessels of all kinds are made.

Räyakottai ("lang's fort).—Village in the Krahnagin tolich of Salem District, Madras, situated in 11° 31 N and 78° 2 E Population (1901), 1,497 To the north stands the hill with its rumed fort which gives the place its name. This commands one of the most important passes between the Mysore table land and the Baramahill, and was of great strate given importance in the Mysore Wars of the eighteenth century. Its capture by Major Gowdie was the first exploit in Lord Comwallis's march. It was ceded to the British by the treaty of 179s, and under its walls the army of General Hams en camped in 1799 before entering Mysore territory on its way to Seringapatam. The place was at one time a favourite rendence of military pensioners.

Salem City.—Head-quarters of the talks and District of the same name in Madras, situated in 11° 39 N and 78° to E, 206 miles by rail from Madras city. It has in a picturesque valley, bounded on the north by the SHEVAROYS and on the south by the Jarugumalas. The Tirumanimuttar river, flowing through this valley, contributes to the wealth of greenness. which is the great charm of the landscape. Salem contains the usual offices, a small college, and one of the seven Central pails of the Presidence. The residences of the officials, except of the Collector, whose house is in the native quarter, are pleasantly attested on high ground along the road to Yercand, which is only 14 miles distant by the old budle path. The city is straggling and extensive, being about 4 miles long and 3 broad Its population in 1901 was 70,621, and it ranks as the fifth largest pasce in the Presidency. Of the total, Hindus numbered 63,444, Muselmans 5,811, and Christians 1,365. In 1871 the population was 50,013, in 1881, 50,667, and in 1891, 67,710 A senous not took place here in 1882 between the Muham madens and the Hindus, the question involved being the old one of the right of a Hindu procession to pass a Musalmin mosque. Salem was made a municipality in 1866

receipts and expenditure during the ten years ending 1902-3 averaged about Ra. 77,000 and Ra. 70,000 respectively. 1003-4 the income was Rs. 90,000, the chief items being house and land taxes; and the expenditure was Rs. 1,00,000, including medical services and sanitation (Rs. 50,000), education (Rs. 22,000), and public works (Rs. 20,000). The great want of the city is a proper water-supply. Several schemes have been investigated, but only recently has a promising one been discovered. Salem formerly had an evil reputation as a hotbed of cholers, and in the autumn of 1875 there were 2,030 attacks and 840 deaths in the short space of six weeks. Weaving in silk and cotton is the chief local industry, but is on the decline. In the distress of 1891-2 the weavers suffered greatly and migrated in large numbers, the demand for their productions having fallen off owing to the scarcity of money among their usual clients. Government started a special scheme for their relief, by undertaking to purchase cloths from them on a system which left them a margin for subsistence.

Sankarldrug, -Village in the Tiruchengodu #### of Salem District, Madras, situated in 11° 29' N. and 77° 52' E., 2 miles from the station of the same name on the Madras Railway. Population (1901), 2,046. The place is built just under the Sankaridrug hill, which rises to a height of 2,343 feet, and is completely terraced with fortifications. These point to the vicissitudes of South Indian history, some of them dating from the time of the Hindu chieftains, others from Tipu Sultan's days, and yet others being of English origin. The hill is well worth climbing. Past a Hindu temple, the door of which is riddled with bullets, the traveller toils up a flight of steep steps, and half-way along the ascent reaches a snowy mosque erected in honour of a Moslem mint, which nestles among the green foliage that clothes the hill like a pearl set among emetalds. Leaving this, the path winds among remains of modern fortifications and the houses of the garrison, now overgrown with shrubs and prickly pear, and at length reaches a plateau at the top of the hill. Here is a fount of pure and cold water, supposed to be possessed of medicinal virtues; and the remains of the old Hindu fort, its granary and the subterranean cell into which condemned prisoners were thrown, come into view. Crowning all are the temples of Viahnu, the lights of which twinkle in the evenings in the surrounding darkness. The village is very healthy, and was a favourite camping-place for the District officers till Yercaud rose into prominence. The

public bungalow, one of the finest in the District, is pacturesquely saturated on a rock just under the hill

Sendamangalam.—Town in the Namakkal tāluk of Salem District, Madras, situated in 11° 17′ N and 78° 15′ E. Population (1901), 13,584. It is the third largest town in the District, but the occupations of the people are purely agricultural, and it is of hitle other interest.

Turuchengodu Town — Head quarters of the hilled of the same name in Salem District, Madras, situated in 11° 22' N and 77° 53 L, 5 miles from the Sankandrug station on the Madras Railway Population (1901), 8,196. The town is colebrated for the shrine on its hill, which is one of the great temples of the Konga Vellalas and attracts thousands of pilgrims.

Thruppattur Town—Head quarters of the false and sub-division of the same name in Salem District, Madras, situated in 12° 29 N and 78° 34 E, 137 miles from Madras by the south west line of the Madras Railway. Population (1901) 18 689, of whom more than a third are Muhammadans. The town has always been a favourite station, and was the original British capital of the District, Colonel Read, the first Collector, having made it his head-quarters in 1792. It was constituted a municipality in 1886. The municipal receipts and expenditure during the ten years ending 1902-3 averaged Ra 25,000 and Rs 24,700 respectively. The income in 1903-4 was Rs 56,000, and the expenditure Rs 44,000 of the former Rs 31,000 was contributed by Government, and the rest was principally derived from the house and land taxes and from tolls.

Vanryambadi — Town in the Turuppattür faluk of Salem District, Madras, situated in 12° 41 N and 78° 37 E, 115 miles from Madras by rail Population (1901), 12 005, of whom no less than 7,591 were Lablant, a mixed race consusting partly of the offspring of Musalmans and the women of the country and partly of converts from Handman Many of these are very wealthy and engage in trade with all parts of India, especially, as at Väniyambāda, in skims and Other articles of commerce are grain, cloths, and oil. hidea The town is situated mainly on two islands enclosed by the branches of the PALAR river, and is liable to inundation in the pany season. In 1874 the Palar rose and washed away portions of the town. The floods of 1903 did even greater damage. On the night of November 17 the river rose suddenly and flooded the low lying portions of the place, the water rushing through some of the streets as much as 10 feet deep. It washed away many houses, and, though the majority of the people saved themselves by taking refuge on the roofs, 150 to 200 lives were lost. Fresh sites have been acquired to the east of the railway and the nucleus of a new town is rising. Vāniyambādi was created a municipality in 1886. The receipts and expenditure during the ten years ending 1902-3 averaged Ra. 23,200 and Rs. 23,100 respectively. The income in 1903-4 was Rs. 65,700 and the expenditure Rs. 39,600; of the former, Rs. 43,800 was contributed by Government, and the rest was principally derived from the house and land taxes.

Yercand (Er-Add='lake-wood').—Sanitarium on the Shevaroy Hills, in the tilis and District of Salem, Madras, situated in 11° 49' N. and 78° 12' E., at an elevation of 4,828 feet above sea-level. Population (1901), 7,787. It is steadily growing in favour as a hot-season resort, and contains good accommodation for visitors. The scenery is of great variety and beauty, and includes the charm (not obtainable in Ootacamund and Kodaikānal, for example) of views, from almost every point, over the plains below. The climate is delightful and equable, seldom rising above 75° and never falling much below 60°; and interesting excursions can be made to many points of interest. All round are the coffee estates of European planters. It is easily reached by the cart road recently opened from Salem milway station, distance 20 miles.

COIMBATORE DISTRICT

Combatore District (Keyamuttur) — An inland District in the south of the Madras Providency, lying between 10° 15 and 11° 18 N and 76° 39 and 78° 14 E, with an area of 7,860 square miles

West and south it is bounded by the highest hills in the Presidency, the Nilgins and the Anaimalais, the latter of which are purhaps the most striking range in Southern India, consisting of a series of plateaux, some rising to 7,000 feet in elevation, with forests of great importance. Through the three northern taluks run the confused hills of the Lastern Chaix, one of which, kollegal, is on a higher level than the rest of the Divinct Fachiding this, the centre of Combatore consists of an open plain, sloping gradually eastwards away from the hills towards the mer CALLERY, the castern boundary of the Dis truct. The plain is broken here and there by isolated low hills, but otherwise, except in the level black cotton soil tracts in the Udamalpet, Palladam, and (combature telects, it is made up of a succession of gentle undulations between which the rivers run Its scenery differs little from that of the adjoining cast coast Districts, except that the frequent green patches of cultivation near its numerous wells give it in the dry season an unusually The spurs of the Eastern Ghats in the three prosperous look northern Albeks form two well marked mmor ranges, known as the Biligin rangens and the Bargur hills. The former, which consist of two ridges running up into peaks of over 5,000 feet, he on the extreme west of the Kollegal Ashak, extending into Mysore territory The latter stand between the Bhavam and Kollegal tabels and are called after a village which her among them They form a long narrow plateau over 3 000 feet in height In both of these ranges the scenery is always picturesque, while in many of the lower valleys the heavy pingle is particularly wild Of the hills on the western frontier of the District the most conspicuous are Rangaswami Peak and Lambton's Peak

Except the Aliyer, an unimportant stream, all the larger invers run eastwards, following the trend of the ground, into the Cauvery, the most important river of the District and the boundary along the whole of its northern and eastern udes

At the north west corner of Kollegel this forms the famous Falls of Styasamung am, well known for their beauty, and now utilised to generate electricity for the machinery at the Kolar gold fields, and for lighting the city of Bangalore Bhavam, a perennial river, which rises in the Attapadi valley in Malabar, crosses the District from west to east just south of the three northern upland titleds, and flows into the Cauvery at Bhavani town. The Noyil, a fitful and uncertain stream, which is in high and rapid flood for a few days and then for months together almost dry, has its source in the Bolampath valley among the outlying spury of the Nilgaria, and passes through Combatore city on its way to the Cauvery The American rives in the Anaimalai hills, receives the dramage of the northern slopes of the Falm hills in Madura District, and, after passing through Dharaporam and Kariir towns, joins the Cauvery at the point where the Districts of Combatore and Trichinopoly touch one another

Most of the south of the District is composed of Archaean (generates buried to a considerable extent under surface alluvium. The uniform level of the plant is sparingly broken at irregular intervals by small bands of members of the charmoclate series of rocks, by one small band of syenite gners near Kangayam, and by upstanding crags and ridges of crystalline schiats. The northern billy tracts include a vast area of charmoclate rock. Near Kollegal are a few ferruginous bands and poor quartz reefs. Near Kängayam some very coarse ramifications of acid pegmatites once yielded beryl, and in the same locality community, which also occurs elsewhere, is found in a coarse red felspar rock.

The flora is naturally very varied, since the elevation and the I rainfall of the District differ greatly in different parts. The higher plateaux of the Anamalais, the low hills of the northern tillula, and the dry central plant each possess their own characteristic plants and trees. The forest growth and the commoner crops are referred to briefly below. In the low country the trees differ little from those of neighbouring areas, and are usually of poor growth. Fruit trees are scarce. The well-known tanguals (Casses correcteds), the bank of which is used in tanning, and fibres, resins, and vegetable cals of the common descriptions are abundant.

The hill country contains all the game usual to such localities. It Elephants are common in the Anamalais and also occur in the Biligiri rangan hills in Satyamangalam. Near Hasantr in the latter MAst Sir Victor Brooks shot (in 1863) the largest elephant.

on record in this Prendency It stood 11 feet 4 inches at the highest point of its back, and one of its tusks measured 8 feet in length and weighed 90 lb, the other being diseased

Among rarer animals are the Nilgin ibex (Hemitragus hylocrius) the hunting leopard (Cynacturus yubatus), sulgus (Boselaphus tragocomelus), said to be descended from some tame ones which belonged to Tipu Sultan, and an occasional wolf. There are manager of unusual size in the Bhavani and Cairvery.

The lower hills of the District are malarious, especially from February to June but elsewhere the climate of Combatore is unusually dry and proportionately healthy. The temperature varies inversely with the altitude, being highest in the low lying Cauvery valley, more moderate in the uplands on the west, pleasant in the Kollegul tabal, an cool as the Salem Shevaroys in the Bargur hills, and coolest of all on the higher ranges of the Anaimalais. The average mean of the year at Combatore city is 80°, compared with 83° at Madras

The ramfall, like the temperature, varies considerably in different parts of the District. The Kollegil takel recovers some of the south west monsoon and consequently has the heaviest fall and the Pollachi takel gets more rain than the Cauvery valley or the central plain of the District. This plain is the direct tract in the Presidency, except the centre of Bollary District. The average annual fall for the whole District is about at mothers. The rainfall is, however, exceedingly capricious and infection, and the country is liable to frequent cycles of continuous deficiency in the monsoons, causing long droughts. Thirty one lives were lost in an earthquake which occurred on February 8, 1900.

The District was never a political entity and its history is not of particular interest. Combatore and the south western historic of the present Salem District formed the Kongu country, and Combatore is still called the Kongunad. During the ninth century the Kongu country passed under the Chola kings, who held it for nearly soo years. It then broke up into a number of small principalities, which during the cleventh century fell an easy pre, to the Hoyala Balisla kings of Mysore. In the fourteenth century, this dynasty in its turn gave way to the kingdom of Vijayanagar which held the country until its down fall in 1565. Combatore then came into the hands of the Vijayanagar deputy at Seringapatam, who, like his colleagues, had assumed independent powers, and shortly afterwards passed from him to the deputy at Madina. During the second half

of the seventeenth century the whole District seems to have been a prev to constant wars and raids, owing to the conflict between the Vilayanagar deputies and the growing power of Mysore Kiveripuram was attacked in 1644, Satyamangalam was taken in 1653, Brode and Dharapuram in 1667, and before Chikka Deva Raja of Mysore died in 1704 the whole of the Dutrict had come under his dominion. But it continued to be largely ruled through the agency of polygars, or petty chieftains, whose powers were almost absolute and who used them ruth lessly, and the people guined little by the change of sovereigns In 1761 Haidar All usurped the Missore throne During the forty years of Muhammadan rule which followed, until the Dis trict passed to the Company after the defeat and death of Hardar's son Tipil Sultan at Seringapatam in 1799, it was the scene of incessant marches and countermarches, advances and retreats by the British and the Mysore troops, and the forts scattered through it, notably those at Erode, Kariir, Dhara puram and Combatore, were constantly taken and retaken in the numberless engagements which occurred. On four distinct occurrons the District became the field of conflict between the British and Mysore powers. At the end of 1760 an English force took Karur, in retaliation for the assistance rendered in that year by Handar to the French near Pondicherry, but, owing to the fact that Haidar was about this time expelled from Sermgapatam and the Mysore officers in this District duclaimed any connexion with his acts, hostilities were carried no farther. In 1768, while Haidar was busy on the west coast, Colonel Wood marched through the Dutrict and, baving completely conquered it gan isoned the passes and the chief fortified His garrisons, however, were weak, and, in spite of the heroic renstance of some of them, every place in the District either fell or was abandoned before Haidar's advance at the end of the same year. In what is called the first My sore War, while Tipu was engaged on the west coast in 1783, Colonel Lang. entered Combatore to effect a diversion and took Karur and Dharapuram, and later in the same year Colonel Fullarton merched through the District to relieve Mangalore, taking Combatore on the way. In the second Mysore War the District was the scene of considerable operations, since General Medows occupsed it with a large force in 1790 and designed to invade Mysore by the Pass of Gamilhath. In September of the same year, however, Tipu descended that pass with a large army, and, after two stubborn engagements with Colonel Floyd at Satyamangalam, compelled the British forces to retreat and

reoccupied all the forts in the District except Coimbatore and Kartir. Of these. Coimbatore fell after a gallant defence in the following year, and Kartir was restored to Tipil after the peace of 1792. Seven years later the District passed under British rule. Haidar had done something to check the poligier' exactions; but his taxes were excessive, trade was crushed by numerous duties, and the peasantry were at the mercy of the troops who continually overran their villages, so that, when the British took it over, the District was in a pitiful condition.

Throughout the District, even on the Anaimataia, are scattered prehistoric kistvaens, which have been found to contain bones, pottery, implements, ornaments, and bronze images, and in one case 'punch-marked' coins. Several discoveries of Roman coins ', chiefly of Augustus and Tiberius, have been made. Jain temples and remains are not infrequent. The most noteworthy Hindu temple is that at Partir, but even this is a modern erection and the work in it is pretentions and coarse.

The number of towns and villages in the District is 1,445. The population in 1871 was 1,763,274; in 1881, 1,657,690; in 1891, 2,004,839; and in 1901, 2,201,752. The decline in 1881 was due to the great famine of 1876-8. About 97 per cent of the people are Hindus and more than a per cent. Musaludina. The District is divided into ten talaks—Bhavani, Coimbatore, Dharapuram, Erode, Kartir, Kollegal, Palladam, Politichi, Satyamangalam, and Udamalpet—statistical particulars of which, according to the Census of 1901, are appended:—

	1 4	Number of		1	<u> </u>	Eg. 6	3.
Talak.	Ame to super	Tonne	Villages	Population	Personal districts in the last of the last	Percentage variation percentage become	Manber persons also read ass
Kollegii	1,076	1	131	96,462	90	+ 9-1	4,030
Erode	59 ⁸	1	198	*76,460	46I	+114	10,553
Bhavilni	716	1	61	146,981	904	8-15+	4,480
Distritourum .	\$53	1	83	371,127	316	+ 7-4	12,828
Karte	612	t	95 1	230,848	361	+ +3	11,595
Coimbetore .	813	T.	203	230,684	407	+ 7-6	25.544
Satyamen alem .	1,177	ī	176		182	+16.	7,875
Politchi .	710	1	158	195,608	176	+ 6-8	11,179
Pelleden	741	1	194	\$00,004	406	+ 11.3	12,002
Udamalpet	\$66) ,	86	150480	26 6	+ 7-9	10,740
District total	7,860	10	4435	2,301,752	180	+ 9-8	111,309

¹ See Catalogue No. 2 of Roman, Indo-Partuguess, &c., Coins in the Materia Museum, by R., Thurston (Madma, 1894).

The head-quarters of these (except of Satyamangalam, which is at Gopichettipalamam) are at the places from which each is named. The chief towns are the municipalities of Coimba tore, the administrative head quarters of the District, Erode, and Kariir

Owing to the large areas of forest which Combators comprises it is less densely populated than the other southern Districts of Madras, but during the decade 1891-1901 the inhabitants increased at an uniqual rate, the advance in the sparsely peopled talvks of Bhavāni and Satvamangalam being specially notable, notwithstanding that considerable numbers emigrated to the Nilginia and Madura. Though the District is in the Tamil country, as many as an per cent of the people speak Telegu, and in the Kollegal talvk kanarese, the language of the adjoining State of Mysore is spoken by 78 per cent of the inhabitants

By for the most numerous caste in Combatore are the agn ? culturest Vellalas, who are twice as strong here as in any other ! Madras District except Salem, numbering 600 000 or 31 per t cent of the population. Other common cultivating castes are the Kanarese Vakkaligas and the Feligu Kammas and lotti yans. After the Vellalas come the Chakkniyans (leather workers), who number 197,000, being more than twice as numerous as in any other District. Next come the Shanans (toddy-drawers), 79,000, and after them the Parmyans (field labourers), 76,000, and the Oddes (well sinkers and earth workers), 74,000. Other custes which appear in strength are the Pallans and Pallis, who are also mainly field labourers, and the wearing communities of the Kaikolana, Devangua, and Janappans Brahmans are unusually few, numbering only 36 000, or less than a per cent of the population. These statistics correspond with those of the occupations of the people, for though the District is essentially an agricultural one, 65 per cent of the people living by the land, it is less so than most, ewing to the unusually large proportion who are toddy drawers, leather workers, earth workers, and weavers Among castes which are seldom found elsewhere may be men tioned the two jungle tribes of the Sholagas of the North Combatore hills and the Malassis of the Annimalais

Of the 17 800 native Christians in the District over 15,000 (are Roman Catholics. The Jesuit Fathers of the famous I Madura Mission I had a chapel at Dharapuram as early as 1608. In 1739 a Bull of Pope Clement XII, prohibiting I bee the four volumes of La Musica de Madaid (Pairs, 1847, 48, 1864).

certain Hindu customs tolerated till then, caused dissensions and apostasy. Then came the cersation of support from Portugal, and finally the suppression of the Society of Jesus by Clement XIV in 1773. The musiconaires struggled on nevertheless, and in 1845 they were formed into a distinct musicon, in charge of the French prests of the Societe des Missions Étrangères, which in 1850 was made a bishoptic. The London, Leipzig Evangeheal Lutheran, and Wesleyan Methodist are the chief Protestant musicous. These have been working in the District for about the last seventy, forty, and twenty years respectively.

The kollegil tāluk differs as much from the rest of the District in agricultural conditions as it does in chinate and altitude. Elsewhere gnoiss is the chief underlying rock, and the sork derived from it are of fair composition, chemically conndered The four eastern tillules, Bhavani Lrode, Dhart puram, and harm are covered almost entirely with thin gravelly, sandy, or agglomerated calcareous soils, and these soils occupy more than half of the western tabuler also. In three of the latter, however Combasore, Palladam, and Ledama pet, more than on-suith of the cultivable area consists. ot black cotton soil, while in the two others, Pollstein and Satvamangalam, there is a good deal of rich red loam. At the foot of the undulations of which all this part of the District consists is generally a layer of better soil, which the light rain fall has washed down from the higher ground, and these bottoms are more than usually fertile. In them are to be found the majority of the numerous we'll for which the District is noted. Both 'wet and 'dry crops on all classes of soil are mostly matured with the help of the north east moneous in October and November

The District is almost entirely restwars, the samundars and mass lands covering only 684 square miles. The area for which particulars are on record is 7,672 square miles, statistics of which for 1903-4 are given on the next page, in square miles.

The staple food grains of the District are cholors and combs, the areas under which in 1903 4 were 1,033 and 1,010 square miles, or 26 and 25 per cent respectively of the total area cropped. Cholors is the most prominent crop of the southern and western talkets and combs of the east and north of the District. Next in importance come various pulses and rags. About one-fourth of the latter is grown in Kollegal. Rice occupied only 193 square miles in 1903-4. Cotton is mainly grown in the Erode, Palladam, and Udamalpet tähele, and

sugar cane in Combatore and Udamalpet. Tobacco is an important crop everywhere except in Erode and Kollegal and there are about 1,400 acres under coffee. In Kollegal 8,000 acres produce mulberry, which is cultivated to feed the silk worms bred there.

Tolak	Arva shows sa accounts	Foreste	Calt wide wests	Cultra ated	In gated
Kollegil	1 187	718	139	161	11
Lode	бос	16	6	j 520	91
Bhayam	716	372	70	1 163	86
D) en ebotara	8-4		5	7,6	106
Kerer	475	4	4	406	6τ
Countriere	814	908	B1	600	71
Setyamangulam	7,0 ₀ 6	134	45	379	72
Pollachi ·	-84	100	1	749	38
Palledam	739		7	672	117
Udamalpet	448	312		294	67
Daniet total	7 672	2 178	408	4 412	671

The extension of the area of holdings during the last thirty years has amounted to 5 per cent, though three-fourths of the larable area in Kollegal and considerable tracts in Satyamanga lam Bhavam, and Combatore are still unoccupied, nor has much been done to improve the quality of the crops grown Bourbon cotton was introduced at the beginning of the last century, succeeded well, and is still largely grown, but extensive experiments with American varieties have failed. The Mauritius sugar cane has, however, ousted the indigenous variety. The roots have availed themselves of the Land Improvement Loans. Act far more freely than in any other District in the Presidency During the sixteen years ending 1904 more than 15 lakhs has been advanced under the Act, the greater portion of which has been laid out in diagong or repairing wells.

The chief breeds of cattle in the District are the Alambaci, Bargur, and Kängayam. The first are best for heavy draught, the second as trotters, and the last as dairy cattle. The Alambadus are sent to the great cattle fair at Madura and to other markets in the southern Districts. There are large local fairs at Madeswaramaiai, in the Kollegal hills, Avanashi, and Tirlip POR^T. Ponies have long been bred by the samusdars and

¹ For forther particulars, and an account of the breeding herd of the Puttagur of Palacyal-kottru in this District and of the grosses grown for pasture see Bulletina Nos. 8, 27, and 44 of the department of Land Records and Agriculture

wealthier ryots in Combatore, and since 1885 Government has encouraged the enterprise by supplying stallions, eight of which are now stationed in various towns in the District. The annual pony shows held under Government control at Turuppur have demonstrated that an improvement in the breed has already taken place and that a further advance may be looked for. Sheep are of two breeds the Kurumba and the Semmen. The former is a black faced sheep with white wool. The Semmen sheep are brown and covered with hair instead of wool, and are valued only for their flesh. Gosts are bred mainly for their manure.

Of the total area of ryelwars and 'mmor man' lind cultivated 671 square miles, or 19 per cent , were impated in 1903 4 Of this as much as 502 square miles were watered from wells while Government canals urigated 110 square miles, and tanks only 35 square times. The Cauvery supplies about 5,500 acres, of which 1,000 are in the Kollegiil talks and the remainder in Karur Various channels from the American, fed by horambut, or temporary dams across the river, irrigate 44 000 acres of first and second crop in the Udamalpet, Dhara. param, and karur talaks. Two dams across the Bhavam strigate 39 000 acres in the Satjamangalam and Erode talues Of the 151 tanks in the District, the only ones of importance are the Appal kudal chain in the Bhavani tolak fed by streams from the Bargur hills, and the Dhah senes in the Udamalpet tal at supplied from the Anaimalans. The wells of the Durinct are its mainstay. They irrigate three times the area which the Government channels and tanks supply, and are unfailing in all but the severest droughts. About 74,000 of them are in working order and they permit the growth of two and even three crops a year on the land commanded by them Louthum buckets drawn up with a rope and pulley by cattle working down an inclined plane are universally used for hiting the water

Combatore is one of the few Districts in the Presidency which has real forests, as distinguished from the patches of scrub and small trees which make up the greater portion of the technical forest area. It consequently has two District Forest officers, instead of one as usual, whose charges are known as North and South Combatore. The District possesses 2,008 square miles of 'reserved forests, besides 270 square miles mainly in Kollegal, of 'reserved land at the disposal of the Forest department

In North Combatore nearly the whole of the forests are in the three hilly northern takets of Bhavani, Kollegil, and Satyamangalam The greater part of these are at present chiefly valuable as grazing ground for cattle They must have been at one time much finer than at present, but, owing no doubt to the large number of villages attracted in the reserved' area, they have suffered from forest fires and perhaps from excessive graving. At present they form only a poor catchment area for water, which is apt to flow down to the plains in sudden and destructive floods after rain Still, though the trees are small there are a number of valuable species. Sandal and cutch form an almost continuous belt running from the west of Satvamangulam to the east of In patches along the valley of the Cauvery the Bhayani hills are covered with ache (Hardwickia binata), and teak is found in the Bargur hills, in some of the valleys of Kollegal, and on the platean above Satyamangalam Vengus (Pterocarpus Marsupum) is common almost everywhere jal (Sherea Tahira) is fairly abundant, blackwood (Dalbergia latifolis), Eugenia, Terminalis, and many other valuable species occur frequently in the damper areas, while the direct parts contain a consider able amount of satin wood, Albrana, and Anegastus revenue is obtained from minor forest produce, the principal items being tanning material in the shape of myrabolams and tangedu bark (Cassia auriculata) while soap nuts (Sopindus tisfoliatus) nhay (Acacae concurna) vembadam bark (Ventilage madraspatume), and honey and was are also of importance

The most important part of the South Combatore forests lies on the Anamalaus, in the Pollachi and Udamalpet tabuls, and is described in the account of that range. In the Combatore taluk the forests run along the western frontier and consist chiefly of those lying up the Bhavam valley, those about Lambton's Peak range south of this and those in the Bolampatti valley yet farther south. The Bhavani valley forests produce fair blackwood and vergas and excellent penick (I agerstruence microcarpa) and wild mange but the difficulties of transport are great. The Bolumpatti forests also produce fine blackwood and verger, but their chief value lies in the protection they give to the headwaters of the Novil river In 1903-4 the receipts from the forests amounted to Rs 2 74,000, and the charges to Rs 2,15,000. Of the former the most considerable items were timber (Rs. 66,000, of which all but Rs 5,000 came from South Combatore), grazing fees (Rs 67,000, of which Rs 56,000 came from the northern division), sandal wood (Rs. 28,000, all of which came from the same tract), and frewood and charcoal (Rs 23,000)

The minerals of the District are hardly worked at all Bhayam and Satyamangalam from is rudely smelted in small quantities from the black iron sand, and being much harder than English iron is in considerable demand. In Kollegiil and Satyamanmalam the old gold workings have lately been under exploration. Saltpetre is obtained in large quantities by hyrvating the alkaline soils during the hot season m shallow mud vessels, and then boding the resultant hand in large pans. The process gives a crude saltpetre fit for manure. For pure saltpetre a second or even a third boiling is necessary In 1903 28 many as 871 native factories and fifteen refineries were reported to be at work. Saltpetre is coming into increasing use as a manure on coffee estates. A mine near Kangayam produced beryl of some value in 1819-20 when it was last worked. It has been magnested that this mine was the ource of the Indian beryl mentioned by Plm, and that the export to Rome is the main reason for the numerous finds of Roman come which have been made in the Durtnet Corundum is worked by natives in an irregular fashion at Salangaippalaiyam, 8 miles from Bhayam, at Gopichettipalai yam and at Srvanmalar in the Dharapuram tehit. The last named deposits are the richest 1

The only important arts in the District are cotton and silk nearing and the making of cotton carpets. Cotton nearing us of the ordinary kind only course cloths being made weaving is carried on only in the kollegal talks, where silkworms are bred in considerable numbers. The dies used are good and the cloths effective and handsome. In some cases they are ornamented by the introduction of gold and silver embroidery and the gold laced cloths and kerchiefs are well known. These sometimes sell for as much as Rs 300 each, and even more, according to the quantity and quality of the embroiders, which, in the highest priced cloths, is woven in intricate and cleanit designs into the texture of the cloth while still on the loom. The cloths are sold locally or sent to Madras Bangalore, and Mysore Small cotton curpets are made at Bhayam. White yarn, spun at the Combatore mills, is used for the warp and the cotton for the woof is dyed locally. The Cauvery water is said to make peculiarly brilliant and fast dyes. The carpets are sold locally or sent to

For a detailed ascount o the matter are Messons of the Geological Surely of Iroha vol 22000 pp 83-67

Indian Antiquery vol v, p 237
 See Part I (Coundain) of the Economic Section of the Massest of the Goology of Indea (Calcutts, 1898)

Trichmopoly and Madras. At Sethpillaryam near Triuppur a few families of lapidanes grind crystals on emery disks for speciacles, and also make them into triggers and other sacred images. At Anaiphlaryam, a neighbouring village, good bell metal gongs are manufactured, the constituents of the particular alloy used being a trade secret.

There are eight cotton cleaning and pressing factories in the District. Five of these have been working for many years, and four are driven by steam. They clean or press the local cotton for export to Bombay and England, and employ an average of 300 hands daily, and press annually 3,000 tons of cotton, valued at 15 lakhs. At Combatore there is a recently established spinning mill. Particulars of this and other industrial enterprises there are given in the article on that city Leather making is an important industry in the District There is a tannery under European management at Combatore, and another at Mettinpilaryam. Leathern buckets for the numerous wells in the District are made in thousands annually, as each well requires a new bucket once a year.

The chief exports are cereals and pulses, chillies, turmenc, (spices, cotton, calseeds, tobacco, plu, sandal wood plantains, I paggery, brass and copper vessels, cattle, and leather, while the main imports include rice, salt, salt fish, piece goods and twist, metal and metal goods, and coco-nut oil Exports and imports are mainly to and from the neighbouring Districts, but the cotton from the northern fillule goes to Madras and that from the southern to the cotton presses in Madura and Timnevelly, the latter mainly by carts, which come in from those parts by the thousand during the cotton harvest jaggery goes chiefly to the west coast by road and rail through the Palghat gap, the tobacco largely to the same country and to North Arcot, where it is cured by Muhammadan dealers Much of the gold goes to Mysore Coco-nut oil is chiefly imported from Malabar Combatore and Dharapuram are the chief centres of general trade and Palladam of the cotton trade; and the principal trading castes are the Chettis and Labbars. The Nattukottas Chettis, the banking sub caste of the former, are numerous in Udamalpet and Karur, and of the Labbane a large proportion are to be found in the Karur tiliak, aspecially at Pallapatti. Most of the internal trade is effected at the numerous weekly markets. These are managed by the local boards, and in 1901 nearly Rs 50,000 was collected in fees. The most important are those at Pollachi, Kunnattur, and Kangayam.

The south west line of the Madras Railway (standard gange) enters the District on the east about a miles from Erode, and runs across to the Palghat gap on the western frontier. From Podanur a branch leads off to Mettupalaryam, which is the terminus of the metre-gauge rack railway to Coonoor. The South Indian Railway enters the District near Puliyur and akurts the Canvery up to Erode, where it joins the Madras Railway. It was converted to metre gauge in 1879. Other rail ways are under consideration, among them a metre-gauge line from Palghat or Podanur junction to Palmi in Madura District by way of Polkichi and Udamalpet, and another from Erode to languaged in the State of Mysore through Satyamangalam.

The total length of metalled roads is 1,269 miles, and of animetalled roads 459 miles. All these, except 40 miles of metalled and 20 miles of unmetalled road in charge of the Public Works department, are maintained from I ocal funds. There are evenues of trees along 1 572 miles. The southern part of the District is well supplied with communications, but through the country above the Ghats in the three northern titles only two roads are practicable for carts, the Bargur chât and the Hasanur ghat. The Gazzihatti Pass in the extreme west is a story track leading up to the Mysore plateau. It was formerly the chief road from Combatore to Mysore, but is now used only by pack animals.

The District has suffered from constant scarcities, owing to the lightness of its rainfall and the absence of large irrigation. The last nanety three years have been tabulated as 6 good 25 fair, 51 unfavourable and 11 really had 1861 both monacons failed, prices of 'dry grains nearly doubled, and state rehef was necessary. In 1866 the south west rams again entirely failed and the north east monsoon was very light, so that rollef was once more required the great famine of 1876-8 the District suffered very severely. At the height of the famine, in September, 1877, 30,000 persons were on relief works and 204,000 m receipt of gramitous rehef. It was calculated that more than 197,000 persons died of famine or the diseases that accompany it Including advances to agriculturate and weavers, and remissions of land revenue, the famine in this District alone cost the state to lakh. The last scarcity was in 1891-2 In September, 1891, nearly 7,000 persons were on relief works and also more were in receipt of gratuitous relief. It is estimated that during this season 127,000 cattle died. Including remusions, the state expended Rs 1,36,000

For general administrative purposes the District is dis I tributed into four subdivisions, one of the officers in charge in of which is usually a member of the Indian Civil Service and at the others Deputy Collectors recruited in India. These subdivisions are Erode, comprising the Bhavani, Dharapuram, Erode, and Kartir takets, Pollechi, comprising Pollachi, Palladam, and Udamalpet, and Combatore and Kollegal, the former consisting of the Combatore and Satyamangalam takets and the latter of Kollegal alone. There is a taketest at the bead quarters of each of the takets and, except at Bhavani and Kollegal, a stationary sub magnitude also. The superior staff of the District contains the usual officers, except that, as has already been mentioned, there are two District Forest officers.

There are four regular District Ministry, and the Deputy (Collector and Magustrate of Kollegal exercises the powers of a District Munif throughout that sales and in the portion of Satyamangalam which hes above the Ghats the Sub-Judge of Ootscamund and the District Yours is Court of Gudalur in the Milginia, where there is no District Court, he to the District Judge of Combatore The Court of Session hears the sessions cases of the Nilgins as well as those which arise within the District itself. Murder, decontes, and cattle thefts fluctuate in numbers, as elsewhere, with the state of the season, but are more than usually common Murders proceed in a large majority of cases from private per sonal motives. The frequency of decouve and cattle theft may in part be ascribed to the precamous hyelshood which cultivation offers in so and a tract, and in part to the proximity of Madura District, whence the Kallana, perhaps the most expert criminals m the Presidency, come over to Combatore to ply their profession. The system, which is firmly established in Madura, of paying thieves the per hath, or 'clue hire,' for the recovery of stolen property, instead of reporting the theft to the police, has also obtained a strong hold in Combatore

Little is known of the revenue history of the District prior to the time when the kingdom of Mysore was usurped by Hardar Ah. Chikka Deva Räjä of Mysore (1671-1704) made a regular survey of the country. He took two thirds (in kind) of the gross produce of 'wet' lands, leaving the ruot one third. When Haidar came into power at Mysore he apparently adopted this survey as the basis of his assessments, but he collected all his runts in money in a single payment, and not by instalments as is now the practice. This forced the ryots to sell immediately after the harvest at runnously low prices,

and much land was consequently abandoned. Tipu Sultan increased all the assessments by 25 per cent, and yet more land went out of cultivation in consequence, but he was never able to collect this exceptiant demand, and at his death the arrears were enormous, and only the garden lands and some 'wet' land had any sale value.

Major McLeod, who was the first British Collector of the country north of the Novil river, the area south of this being included in the then Dindigul District, began in 1800 a regular survey of the Government villages in the District, which he followed by a rough settlement. In the southern part of the District, the Collector (Mr Hurdis) made a survey and proceeded to estimate the grain producing value of each field, a new idea in those days, and to commute the Government share into a money payment. Neither attempt was successful, the demand m both cases being more than the land could bear. The District as it exists at present was formed in 1805, Combatore being made its head-quarters. In 1808 the theory of permanent settlements had come into favour, and the District was divided into a number of small revenue farms of two or three villages apiece which were leased to village headmen and wealthy ryots. This leave system was a complete. failure owing to the abuses perpetrated by the renters, and the revenue fell from 21 to 17 lakhs. In 1815 the ryoturary system was restored. A new survey and settlement, resulting m a considerable reduction of assessment, were made but many of the undesirable characteristics of the old native regime were continued, and it was not until 1864 that revenue administration had reached the present stage. In 1860 a new survey of the Duitset was begun, and m 1872 a resettlement was put in hand, which was completed in 1882. The survey found an excess in the cultivated area of 61 per cent over the amount shown in the accounts, and the settlement enhanced the total revenue by 8 per cent, or a little over a lakhaaverage assessment on 'dry' land is R o-14-7 per acre (maximum, Rs z , minimum, 4 emiss), and that on 'wit' land Rs 6-7-6 (maximum, Rs 12, minimum, Rs 24) The revenue from hard and the total revenue in recent years are given below, in thousands of tupees -

	1860 −4	t il go-ı	1 0001	1008 4-
I and reverse Total severse	28,80 84,61	1	33 76 51,27	, - ,

² The *markedorse* were granted on a fixed purcement cant once for all

Outside the three municipalities of Combatore, Karur, and I Erode, local affairs are managed by the District board, and by the four table boards of Combatore, Erode, Pollachi, and Kollegal, the areas under which correspond with those of the four administrative subdivisions. The total expenditure of these boards in 1903 4 was about 4½ lakhs, nearly half of which was laid out on roads and buildings. The chief source of their income is, as usual, the land cess. In addition, the affairs of 21 of the smaller towns are managed by Union pershapatr established under Madras Act V of 1884.

The District Superintendent of police at Combatore has I general control over the Nilgin District as well as his own I The Nilgins and Combatore together have 84 police stations, and the force, in 1904, numbered 1,488 constables and 1,564 rural police, under so inspectors. Besides the Combatore Central juil, there are 15 subsidiary pails, which can collectively accommodate 270 persons.

According to the Census of 1901 Combatore stands twelfth among the Districts of the Presidency in the literacy of its population, of whom 5 r per cent (0 7 males and 0 6 females) are able to read and write. Education is most advanced in Combatore, and most backward in the Satyamangalam, Kollegal, and Bhavani tabula | The total number of pupils under instruction in 1880 I was 12,485, in 1890 I, 26,946, in 1900-1, 39,724, and in 1903-4, 39 559. On March 31, 1904, there were 1,065 primary, 30 secondary, and 5 special schools, beardes a colleges. The girls in these numbered 4,341 Besides the public schools, 179 private schools contained 3 172 male and 408 female scholars. Of the 1 102 materitions classed as public, 8 were managed by the Educational depart ment, 103 by the local boards and 12 by municipalities, while 574 were aided from public funds, and 405 were unsided but conformed to the rules of the department. The anormous majority of the pupils under instruction are only in primary classes, and the number of gads who have advanced beyond that stage is extremely small. The improvement in all directions during the last thirty years has, however, been very marked. Of the male population of school going age 18 per cent were in the primary stage of instruction in 1903 4, and of the female population of the same age 3 per cent Among Muselmins (who, however, form a very small proportion of the population) the corresponding percentages were 76 and 9. About \$,700 Panchama pupuls were under matruction et III echools especially maintained for

depressed castes. The two colleges are in Combatore city, to which place will also be moved the College of Agriculture of the Province now located at Saidapet. The total expenditure on education in 1903-4 was Rs 2,94,000, of which Rs 1,11,000 was derived from fees. Of the total more than half was devoted to primary education.

The District possesses is hospitals and is dispensaries, with accommodation for 132 m patients. In 1903 the number of cases treated was \$70,000 of whom 1,500 were in patients, and 7,400 operations were performed. The expenditure was Rs 54,000, the greater part of which was met from Local and municipal funds.

In regard to vaccination the District has been backward of late years but during 1903-4 the number of persons successfully vaccinated was 28 per thousand, or only a little less than the mean for the Presidency (30). Vaccination 15 compulsory in the 3 municipalities and in 15 of the 21 Unions [Sir F. Nicholson, District Manual, 1887, and H. A. Stuart, Revised edition, 1898.]

Kollegal Taltak.—Northern takak and subdivision of Combatore District Madras, lying between 110 46 and 12° 18 N and 76° 59' and 77° 47 E, with an area of 1 076 square miles. The Cauvery river bounds it on three sides, forming at its north west angle the famous Siyasamudram island and Falls. The population in 1901 was 96,563 compered with 88,533 m 1891. There are 122 villages, and only one town, kollingal (population, 13,729), the head quarters The demand for land revenue and course in 1903-4 amounted to Rs 1 16,000 Kollegel is the most sparsely peopled talks in the District, its population, which is mainly Kanarese as in the adjoining State of Mysore, numbering only 90 persons. per square mile while the average for the District is 280 Unlike the rest of Combatore, Kollegili benefits considerably from the south west monsoon, and its annual rainfall (35 inches) is the beaviest in the District. The southernmost spurs of the Rastern Ghāta run through it, forming on the west a well marked some range called the Biligin rangen hills, and it is on a higher level than the remainder of the literact and really forms part of the adjoining Mysore plateau, the climate and temperature of which it shares. More than half of the takel consists of 'reserved' forest, but this is chiefly useful as a grasing ground for cuttle, for the Kollegil ryot is more often a rames of stock than a cultivator of arable land. The well known Alambadi breed of draught cattle comes from here

Erode Subdivision (*Iroda*) —Subdivision of Combatore District, Madras, consisting of the *tālaās* of Erode, Bhavani, Dharapuram and Karön

Erode Täink-Rastern /āluk of Combatore Dustrict, Madras, lying between II° 2 and II° 27' N and 77° 22 and 77° 55' E, with an area of 598 square miles population in 1901 was 275,460, compared with \$47,008 in 1891 There are 198 villages, and only one town, Eroda (population, 15,529), the head-quarters. The demand for land revenue and cesses in 1903-4 amounted to Rs 5,07,000, a higher figure than in any other talks. Erode is a gently undulating plain with no bills of importance and but little forest, sloping gradually to the Canvery river, which bounds it on the east. It is rather bare of trees, and in the valley of the Cauvery the climate is hot and close. The irrigated land is of a good class, much of it being fed by the Kalingarayan channel from the Bhayani river. Wells are also unusually plentiful. The ramfall averages ay mohes at Erode, but it is variable and partial Camba is the chief cereal, and much cotton is raised.

Bhavani Taluk - North castern takek of Combatore District, Madras, lying between 11° 23 and 11° 57 N and 77° 25 and 77° 51 E, with an area of 715 square miles. It is bounded on the east and south by the Cauvery and Bhavani rners, which unite at its south east corner. In the north and west large portions are covered by the Bargur hills, and consequently the table is poorly supplied with roads. It has off the railway, and has only one considerable town, Bhavani (population, 8,637), the head quarters, and 62 villages. The population rose from 119,860 in 1891 to 145,982 in 1901, showing an increase of nearly 22 per cent, which is greater than in any other takek in the District. The proportion of Christians is above the District average, being between 2 and 3 per cent of the total population. Muhammadans are much fewer. The number of persons able to read and write is small as compared with other table. The demand for land revenue and cesses in 1903-4 amounted to Rs 1,55,000. More than half the talk is covered with forest. Of the cultivable area about a tenth is usually introdeed and a fourth is unoccupied. Cambu is much more widely grown than any other crop, and choless and rdgs are also mused in fair quantities. The ramfall averages so inches annually at Bhavām town, but is less in the west of the take. A hard and valuable from u smelted in small quantities, and corundum is worked. irregularly at Salangarppälaryam, there is also a brisk trade in cloths and forest produce at Bhavani, but otherwise there are no industries worth mentioning. The Bargur cattle, bred in the hills of the same name, are of medium size, and, though rather intractable, are attractive in appearance, fast, and strong

Dhiritourum Talink -- Southern taken of Combatore District, Madras lying between 10° 37' and 11° 8 N and 77° 19' and 77° 54 E, with an area of 853 square miles. The popul lation in 1901 was 271 127, compared with 252,847 in 1891 It contains one town, DHARAPURAY (population, 17,178), the head quarters, and 83 villages. The demand for land revenue and cesses in 1903 4 amounted to Rs 4 47,000. The taluk is an undulating plans, bounded on the north by the Noyal mer and crossed by the Amarayan, which impates a small area in the south. The rainfall is light, averaging only so inches annually, and the soil is mostly poor and sandy. The impated crops are consequently not particularly good, but the irrigation from the Amarayati is excellent, and the area watered by wells is larger than in any taker except Palladam. As usual in the worth of the Destrict cannot us by far the most common cercal. and much tobacco is raised with well irrigation

Kartir Tilluk -- South eastern tabus of Combutore District. Mauras lying between 10° 38 and 11° 6 \ and 77° 45 and 78° 14 F, with an area of 612 aquare miles. It is an open and undulating plain with no hills or forests of note, bounded on the north by the CAUVERS river and traversed by the Ama-It is poorly wooded and suffers from an unusually trying hot sesson. It has one town, the municipality of LARDR (population, 12,769), the head-quarters and 95 villages. The population in 1901 was 220,843, compared with 211 794 in 1891, the increase having been slower than elsewhere in the District. The demand for hand revenue and cesses in 1903 4 amounted to Rs 3 49 000. The wal is mostly of an inferior red or grev variety and is generally lightly assessed The area arrigated by channels is larger than in any taluk except Satyamangalam These lead from the Ameravati and the Cauvery, and this is the first taken in the Presidency in which the water of the latter is used to any considerable extent. The ramfall (averaging 16 mches annually) is fairly plentiful and regular, and the crops are generally good Cambe is by far the most common certal

Combators Subdivision — Subdivision of Combators District, Madres, compating of the telesis of Combators and Satismangalan.

Colmbatore Taluk.-Western taluk of the District of the same name, Madras, lying between 10° 40' and 11° 24' N. and 76° 30' and 77° 10' E, with an area of 812 square miles. The population in 1901 was 330,684, compared with 307,282 in 1891. The Allah contains one town, Combatore (population, 52.080), the head-quarters of the tabut and the District, and 262 villages. The demand for land revenue and cesses in 1003-4 amounted to Rs. 4.20,000. The taluk is flanked on the west by the Nilgiri Hills, numerous outliers from which run down into it on that side, but on the east it consists of an open plateau with a very pleasant climate. One-fourth of it is covered by forest. Irrigation is chiefly from the Noyil river, which passes through the centre, but it is also known for its tanks. Six-sevenths of the 'dry' land is red sand or red loam of a good kind. As in the other northern and western talkets, cholam is the chief crop, though cambe also is grown, and a considerable quantity of cotton.

Satyamangalam Taluk.—North-west tāluk of Coimbatore District, Madras, lying between 11° 15' and 11° 49' N. and 76° 50' and 77° 35' E., with an area of 1,177 square miles. The population increased from 184,017 in 1891 to 214,101 in 1901, or by 16 per cent. Besides Gopichettipalatyam (population, 10,227), the head-quarters, it contains 175 villages. The demand for land revenue and ceases in 1903-4 was Rs. 4.42,000. Almost half the tāluk, its northern and eastern portions, is covered by hills which contain excellent forests. Of the cultivable area about 13 per cent, is usually irrigated, and this contains a large proportion of the best classes of land in the District. It is fed mainly from the BHAVANI river, which traverses the tabus from west to east, and the area watered by channels is larger than in any other talus. On the 'dry' land associate is by far the most common crop. The minfall averages 27 inches annually. The tract which lies below the hills is well supplied with roads, but there are no railways or telegraphs in any portion of it. After Kollegal it is the most sparsely peopled tāhuk in the District.

Politichi Subdivision.—Subdivision of Coimbatore District, Madras, consisting of the täluks of Pollacel, Palladan, and Udamalper.

Pollachi Talink.—South-west tähek of Colmbatore District, Madras, lying between 10° 15' and 10° 55' N. and 76° 49' and 77° 16' E., with an area of 710 square miles. The population increased from 183,669 in 1891 to 195,608 in 1901. It contains one town, Pollachi (population, 8,958), the head-quarters,

and 158 villages. The demand for land revenue and cesses in 1903-4 was Rs 3,04,000. The north of the tāluk consists of an undulating plain, but the southern portion is covered by the great Anaimalai Hills and their dense forests. The former faces the Palghāt Gap in the Western Ghāts, and consequently receives some of the south west monsoon which is prevented by this range from reaching the east of the District, and so has an early cultivation season. The taluk contains less irrigated land than any other except Kollegāl, but its 'dry' land is usually good and includes some black loam on the extreme east. Nearly half the small extent of samurdars land in the District lies in this tāluk.

Palladam Tähuk -- Central taluk of Combatore District, Madres, lying between 10° 47 and 11° 21 N and 77° 1 and 77° 30 E, with an area of 741 aquare miles Population m creased from 270,300 in 1891 to 300,904 in 1901. It con tams one town Transper in (population, 6,056), and 193 villages, including Palladay (3 187), the head quarters. The demand for land revenue and ceases in 1903-4 amounted to Rs. 4 87,000 It is a flat and dream plam without hills or forests. The only river is the Noyal. The irrigated area is higher than in any other take in the District, but nearly all of this is served by wells, with which it is better supplied than any other. There is much black cotton soil in the south and south west, and the area under cotton is larger than anywhere else in the District Cholass is by far the most widely grown crop, and some tobacco is reased with irrigation from wells. The rainfall is very small, averaging only 20 inches annually

Udamalpet Taluk - South western taluk of Combatore District, Madras, lying between 10° 16 and 10° 48 N and 77° 3 and 77° 25 E, with an area of 566 aquare miles contains one town, University of (population, 10,503), the head quarters, and 86 villages. The population rose from 139,430 in 1891 to 150,480 in 1901. The unusually high proportion of 3 per cent are Muhammadans, who are better educated than in any other talua in the District except Combatore demand for land revenue and cesses in 1903-4 amounted to Rs 3,48,000 The greater part of the label is an open plan, but the south contains a large portion of the Anaimalai Hills, and consequently between half and a third of the tabul is covered with forest. It is traversed by the upper waters of the Amarasati, which progree a small area. The ramfall is small, averaging only 22 inches annually Most of the land is red earth, but there are tracts of black cotton soil, and the area under cotton is large

Bhavani River.—A picturesque perennial river of Southern India, rising in the Attantidi Valley in Malabar District, m 11* 14' N. and 76° 32' E., and traversing from west to east for 105 miles the tilduly of Satvamangalam and Bhavany in Colmbatore till it falls into the Cauvery near Bhavani town. fluence is considered very boly and is frequented by polyrims. Deriving its supplies principally from the south-west monsoon. the Bhavani receives its first freshes about the end of May, is at its highest flood from June to August, and thenceforward, with occasional floods in the north-east monsoon, gradually subsides It is fed by a number of small tributaries from the alopes of the Nilgirus on the north and the more open country to the south. The most considerable of these is the Moyar, which drains the northern side of the Nilgin plateau, and joins the Bhavani near Kottamangalam. The Bhavani is crossed by the ghat road and the metre-gauge rack railway to the Nilgins at Mettupälaiyam, and by road bridges at Satyamangalam and Bhaviini. Twice recently it has come down in consider able floods: in 1882 great damage was done along its bank, and in 1902 the road bridge at Mettupalaiyam was carned away. Otters are found in it, and it is famous for its mahseer and other fish. It affords the best impation in Combatore District by the Tadampelli, Arakkankottai, and Kalingarayan channels, which together water 30,000 acres; and it has given its name to a considerable impation project which has been much discussed. This consists in forming a reservoir about 4 miles above Satyamangalam to contain 27,000 million cubic feet of water. Opinion is divided as to how this water should be used; but the project in its present form does not contemplate any extension of irrigation in Compatore District, but provides for the water being utilized to supplement the Cauvery urigation in Tanjore District during September and October. The question has arisen whether a reservoir could not be more advantageously constructed lower down on the Canvery itself, and this is still under investigation. The fore-its which protect the head-waters of the Bhavani are largely owned by private individuals; and unless they are carefully preserved, the effect on the water-supply for irrigation from the river may in time be very serious.

Bhavani Town.—Head-quarters of the talks of the same name in Coimbatore District, Madras, situated in 11° 27' N. and 77° 40' E., 9 miles north of Erode at the confluence of the Bhavani and Cauvery rivers. Population (1901), 8,637 It was for a short time at the beginning of last century the

head quarters of the northern portion of the District, but is now important only as a place of pilgrimage, its sanctity being due to its position at the junction of the two rivers. Both of these are crossed here by fine mason; bridges, as the main road from Madraa to Calicut once passed this way. That over the Cauvery was originally built in 1847, but was washed away almost at once, and was reconstructed in 1851. The temple of Sangama Iswara ('the god of the confluence') is well sculptured and is much revered. The old fort is said to have been built by a local chieftam who held it under the kings of Madura. The town contains a large number of Brahmans and other persons attached to the temple and is notonous for petty mingues. Good cotton cloth and carpets are made here, the latter took a first prize at the Madras Exhibition in 1883. The place is said to have once been famous for its dyes.

Coimbatore City (Kojamutter) — Head-quarters of the District and talks of the same name, Madras, attracted in 11 N and 76° 58' E, on the left bank of the Noyil river, on the trunk road from Madras to Cahent, 305 miles from the former town by the Madras Railway. The population in 1872 was 35 310, in 1881, 38,967, in 1891, 46,383, and in 1901, 53 080. It is thus a rapidly growing place, and now ranks tenth among the towns of the Province. About 85 per cent of the inhabitants are Hindus, Musalmans numbering 4,129 and Christians 3,860.

During the wars with Haidar Alt and Tipt, Combatore, from its position commanding both the Palghat Gap leading to Malabar and the Gazalhatti Pass to Mysore, was of great strategical importance. It was taken by the British in 1768, but was almost immediately lost again, the Muhammadan commandant treacherously murdering the British officers and handing it over to Haidar. In 1783 it mirrendered to Colonic Fullerton, but was shortly afterwards restored to Tipil on the eve of the I reary of Mangalore. On the reopening of host h tics in 1790 it was retaken by the British. The year after, Tipu sent 2,000 regulars with guns and a conviderable body of irregulars to regain it. The siege which followed is the most memorable event in its history. The fort was energetically and successfully defended against the first investing force by Lieu tenant Chalmers (afterwards Major General Sir John Chalmers, KCB) and a young Frenchman named Migot de la Combe, with a small force of 120 topasses and 200 Travancore sepoys. of whom the majority either deserted or proved extremely in subordinate. Tipü then sent a second force of 8,000 regulars

with fourteen guns and a large number of irregulars and cavalry under Kamar-ud-din, his most famous general, to average the repulse. The garrison had meanwhile been strengthened by reinforcements under Lieutenant Nash, and numbered 700 men. A weak relieving force from Pälghät was beaten back, and eventually, both Chalmers and Nash being wounded, the place was surrendered (October, 1791) on condition that the garrison should be allowed to retire unmolested to Pälghät. Tipū, however, violated these terms and sent Chalmers and Nash as prisoners to Seringapatam¹. A couple of months later the British once more reoccupied Coimbatore, but in 1792 it was again restored to Tipū. In 1799 the British captured it yet again, and were finally confirmed in possession by the fall of Seringapatam in the same year. It was made the capital of the District in 1865.

Coimbatore is now one of the most desirable stations in the Province. Situated 1,300 feet above the sea, in a picturesque position at the month of the Bolompatti valley, with the masses of the Nilgiris and the Anaimalais rising into view on either side, its light annual rainfall of 22 inches and its moderate mean temperature render it at once healthy and pleasant. It is the head-quarters of the ordinary District staff; and also of a Conservator of Forests, a Deputy-Inspector-General of Police, a Superintending Engineer, an Inspector of Schools, and a company of the Nilgiri Volunteer rifles. One of the seven Central jails of the Presidency is also located here. This was completed in 1868 and has accommodation for 1,340 persons. The convicts are largely employed in weaving their average annual out-turn being 420,000 yards of cotton fabrics. worth Rs. 92,000, most of which is khaki or white drill made for the army or civil departments. The city further contains the cathedral of the Bishop of the French Société des Missions Étrangères, and the head-quarters of the London and the Leipzig Evangelical Lutheran Missions working in the District.

Coimbatore was constituted a municipality in 1866. During the ten years ending 1903 the municipal receipts and expenditure averaged Rs. 50,000. In 1903-4 the income was Rs. 76,000, chiefly derived from the house and land taxes (Rs. 16,500) and tolls (Rs. 12,000); while the expenditure was Rs. 79,000, including conservancy (Rs. 40,000), roads and buildings (Rs. 11,000), and the municipal hospital which contains heds for 40 in-patients (Rs. 8,000). The outlay on

¹ For further details of the two sieges, see Wilson's History of the Medium Army, vol. ii, pp. 212-16 (Madres, 1882).

conservancy was abnormal owing to the appearance of plague and was partly met by a contribution from Government A water supply scheme is under investigation, of which the approximate cost is estimated at 3.3 lakly.

Combatore is also the industrial and educational centre of the District. It contains a steam cotton press, a cotton spinning mill which has so ood spindles, employs nearly 1,000 hands daily, and turns out some 850 tons of yarn, a tanner, which employs \$40 persons and produces 200 tons of leather worth 6 lakhs, two steam coffee curing works, which employ 400 hands and trent coffee worth 12 lakhs, mostly from the Salem Shevaroys, a steam factory, in which manure is made from blood, hones, and otherds, some works where coffee is roasted and ground for consumption and a saltpetre refiner. All these are under European management, but in addition a distiller, and a sugar factory owned by natives produce 62,000 gallons of spirit and 440 tons of sugar respectively.

The chief educational institutions are the Combatore and St Michael's Colleges, both of the second grade. The former was established in 1852 by Mr. E. B. Thomas, then Collector of the District, and is managed by a committee of rendents. In 1903-4 it had an average attendance of 525 boys of whom 67 were reading in the F.A. classes. The latter began in 1860 as a small school established by the French Roman Catholic Mission, and was affiliated to the University in 1891. Its average attendance in 1903-4 was 440, and there were 39 boys in the F.A. classes. The College of Agriculture, now located at Sudapet in Chingleput District, will shortly be moved to Combatore, and a forest school, for the training of deputy rangers and foresters, has been opened

Dhill in the same in Combatore District Madras, situated in 10° 45 N and 77° 32 E, on the banks of the Amarivate 30 miles south of Truppur rail say station. Population (1901), 17,178. It is traditionally reputed to have been of importance from very early times and is historically not uninteresting. The Madura Jesust mission founded a settlement here in the seventeenth century. In 1667 it was taken from the kings of Madura by Mysore, and in the campaigns with Haidar and Inpu it was a place of strategical value, having been captured by Colonel Wood in 1768, retaken by Haidar in the same year, again occupied by the British in 1783, given up by the Ireaty of Mangalore and taken again in 1790 by General Medows. In

1798 the fort was dismantled. The town then was almost deserted, but was rebuilt after 1799 upon plans drawn up by Mr. Hurdis, the first Collector of the southern part of the District, who made it his head quarters. A District Court was stationed here for a few years till 1816. The town, which is well built, stands on an open plateau 900 feet above the sea. Seven roads converge at it, it is known for the manufacture of strong and durable carts, and has a fair trade in country produce.

Erode Town - Head quarters of the tabuk of the same name on the eastern border of Combatore District, Madras. utuated m 11° 21' N and 77° 43 E, 243 miles from Madras at a nunction of the Madras and South Indian Railways, and close to the bank of the Cauvery Population (1901), 15,529 It seems to have been long an important place. Early in the teventeenth century the Tesuit Fathers established a station here. In Hardar's time it is said to have contained a coohouses, which would be equal to a population of 15,000 souls but in consequence of successive Maraths, Mysore, and British invasions the town became almost utterly deserted. It was taken from Madura by Mysore troops in 1667, and from Harder by the British in 1768, only to fall into his hands exact. at the end of the same year. It was retaken in General Medows's expedition of 1790, but was abandoned on Tipu's advance. It does not appear to have been a place of any real strength. As soon as the peace was signed in 170s the people returned, and within a year it had 400 houses and a population of over 2,000. It was garrisoned by the Company at first but the troops were withdrawn in 1807, and in 1877. the old fort was levelled as a famine relief work

Erode is a well built town and is the head quarters of the divisional officer, the Assistant Superintendent of police a District Munsif, a stationary sub-magistrate, a taketeler, and the Public Works department subdivisional officer. It was constituted a municipality in 1871. The municipal recespts and expenditure during the tun years ending 1903 averaged Rs 18,000. In 1903-4 they were Rs 23,000, most of the income being derived from the house and land taxes. Surveys and levels for a dramage scheme have been taken. A water supply scheme has been investigated, but has not been begun owing to want of finds. The antiquities of the town include two ancient temples which contain many tracriptions in Tamil and Grantha characters. Its chief industries are a cotton press and the making of carts. It is also the trade centre of this corner of the District.

Gopachattipalaryam — Head quarters of the Satyaman galam talah in Combatore Dutinet, Madras, attrated in 11° 27 N and 77° 26 E, 25 miles north west of Erode railway station. Population (1901), 10,227. It contains the best 'wet' land in the tacah, and is inhabited by well to do ryots and traders. It has therefore recently supplanted Satyamangalam as the chief town of the takhh. Corundum has been found here in fair quantities.

Karur Town - Head quarters of the table of the same name in Combatore District, Madras, attested in 10° 58 N and 78° 6 E, on the South Inchen Railway, 48 miles from Inchinopoly and on the Americani river not far from its junction with the Canvery Population (1901), 12 769 town is called Tiruvanilai or Pasupati ("the place of the sacred cow) m vernacular writings. The name karur means 'em. bryo town,' and is said to have been given because Brahma. began his work of creation here. For the same reason it is often called Brahmapura in legendary records. It was apparently a place of some importance as far back as the early centuries of the Christian era, for cours of the emperors Augustus, Tiberius, and Claudius were found near by in 1806. brusted pear the point where the territories of the rival Chem, Chola and Pandya dynasties met it probably played a part in their ancient strongles. On the dissolution of the Vijeya. magar empire in 1565 karur fell under the Naiks of Madura. but it was frequently attacked and occupied by the Mysore armies, and towards the end of the seventienth century it was finally amexed to the latter Lugdom and became its most amportant frontier post. In 1639 the Jesuits established a museon here. In later years the place constantly changed hands. In 1736 Chanda Salub besieged it unsuccessfully In 1760 it was captured by the British in revenge for the assistance given by Haidar to the French. Orme describes the stege in detail. Karur was held by them till 1768, when it was retaken by Haidar, whose possession was confirmed by treaty in the following year. In 1783 Colonel Lang took and held the fort for a few months. There is a monument on the south bank of the river to the British troops who fell in this stere It was a third time captured in 1790 by General Medows, and restored at the peace of 1792. It was garmsoned by the Company as a military station until 1801, and portions of the old fort still remain.

Karnr was formerly the head quarters of the Sub Collector Besides the taknidar, a District Munsif and a stationary sub magnetizate are now stationed here. Being on the railway and at the junction of several roads it possesses a consider able trade. Its chief drawback is its crowded site, which is surrounded entirely by nee fields and the river. The only industry worth mention is the manufacture of brassware on a small scale. There are, however, two tanneness in the neighbourhood. The principal temple is a considerable edifice of some antiquity, containing numerous inscriptions on stone

Karur was constituted a municipality in 1874. During the ten years ending 1903 the annual income and expenditure averaged about Rs 20,000. In 1903 4 the receipts and expenditure were Rs 29,000 and 28,000 respectively, the former being chiefly derived from school fees, the house and land taxes, and tolks. It is a station of the Wesleyan Mission, which maintains two industrial schools here, one for boys and the other for girls. A dramage scheme estimated to cost Rs 95 850 has been framed for this municipality, but its execution has been pos-poned pending the introduction of a proper water supply, plans for which are still under preparation.

Kollegal Town — Head quarters of the table of the same name in Combatore District, Madian intuated in 12° to N and 77° 7 E, in the extreme north west corner of the District Population (1901), 13,729 — It is well known for its gold laced cloths and kerchiefs. Some of the alk cloths made here cost as much as Rs 300 each, or even more, according to the quantity and quality of the gold and vilver embroidery, which, in the highest priced cloths, is woven in intricate and elegant designs into the texture of the cloth while still on the loom

Methopilaryam — Illige in the table and District of Combatore, Madras, situated in 11° 19 N and 76° 58 E, on the banks of the Bhavam at the foot of the Nilgin Hills Population (1901), 10,223 Being the terminus of the Nilgin branch of the Madras Railway and the starting point of the ghat road and rack railway which lead up those hills, it is a place of some importance and a deputy taknillar is stationed here. Owing to its attuation, it is notoriously hot and unhealthy. A tannery owned by a native firm employs 60 hands and turns out annually nearly 85 tons of leather, valued at over Rs 50,000. There are more than a hundred deliners in the fields round the place.

Palladam —Head quarters of the *table* of the same name in Combatore District, Madras, attested in 11° o N and 77° 17′ E. Population (1901), 1,387 There are large tracts of

black cotton soil in the neighbourhood, and the town has three cotton presses. It also contains the runs of an old fort

Pertir - Village in the talks and District of Combatore, Madras, attrated in 10° 58 N and 76° 56' E, 4 miles from Combatore city Population (1901), 1636 It is sometimes called Chidambaram, the prefix Mel (western) being added to distinguish it from Kel (castern) Chidambaram in South Arcot It contains a remarkable Hindu temple of great sancing, which enjoys the distinction, shared by few others, that Tipli spared both its buildings and its lands. Fergusson considers the date of the evertion to be about the beginning of the eighteenth century, as a figure of a solther carrying a matchlock is sculptured in the porch in front of the shrine, and his costime and the shape of his weapon are exactly those found in contemporary pactures of the wars of Aurangreb or the early Marathas He thinks that its completion was probably interrupted by the Musalman usurpation in Mysore The inner shrine is no doubt much older, as Perur is a place of ancient sanctity. The modern portion of the temple is richly sculptured, but in a coarse and clumsy fashion in rough material. For this reason the effect is disappointing though the labour bestowed upon the building must have been immense. The priests declare that the principal portion of the temple was built by Alagadn Naik, brother in law of Thrumala Naik of Madura (1623-50) An annual festival held here in the Tarnil month of Margali (December January) is very largely attended by the people of this District and of Malabar

Podamir —Village in the taker and District of Combatore, Madras, satuated in 10° 58 N and 77° o R, 4 miles from Combatore city Population (1901), 6,568 It is the junction of the Nilgin branch of the Madras Railway with the main line, and the site of considerable railway workshops. It enjoys a cool and healthy climate. A sugar manufactory has recently been opened.

Politich Town — Head quarters of the table of the same name in the south west corner of Combatore District, Madras attnated in 10° 39 N and 77° r E Population (1901), 8,958 Standing on the highway from the cast to the west coast, it must always have been an important market town. Traces of its early importance were found in 1800, in a hoard of silver coans of the emperous Augustus and Tiberius. It has, however, no industry except agriculture. The divisional officer is stationed here. The hospital at Politich has accommodation

¹ History of Indian Architecture, 1876, pp \$70-4

for thirty are in patients and a maternity ward. It was founded in 1858, the building being erected by private subscription, and has an endowment of Rs 17,700. In the vicinity of the village are a number of interesting dolmens and rude stone circles which are termed by the people 'graves of the dead'. Several of them have been opened, and have been found to be arranged in circles of diameters ranging from 10 to 45 feet, and to contam fragments of human shulls and bones, and occasionally broken paces of cautherware and a few implements and omaments. These objects were usually met with at a depth of from 5 to 7 feet below the surface. Three bronze images of male and female figures were found, and that these are of non Aryan origin is to be inferred from the position of the woman, who is seated at the right side of her husband instead of the left side, as in all Brahmanical rites.

Satyamangalam —Till recently the head quarters of the tabuk of the same name in Combatore District, Madras, saturated in 11° 30 N and 77° 15 E, on the Bhavani river at the foot of the northern Combutore hills Population (1901). 3 680 Though apparently never strongly fortified, it derived some strategical importance from the fact that it has near the southern end of the Gazalhatti Pass, which was the ordinary route from Mysore to this District. Under the Naik dynasty of Madura it was the residence of a deputy-governor. In the beginning of the reventeenth century it was the local head quarters of the Jesuits. It fell into the hands of the Mysore kings in 1653, was held by the British for some time after Colonel Wood's sudden but short occupation of the District in 1768, and was abandoned before Haidar's advance at the end of the same year. A ruined mud fort in the neighbouring Page was bravely but unsuccessfully defended in this compargn. by Lieutenant Andrews, who was killed by the besiegers. The town was occurred by a division under Colonel Floyd during General Medows's campaign in this District in 1790 preparators to a general advance into Mysore by the Gazalhatti Pass But Typu descended the Pass in September of that vess, crossed the Bhayam above Satyamangalam, and fought two engage ments with the British on the same day. In the first of these, a cavalry fight, the British were completely successful, and in the second, an artillery duel, they beld their ground though they suffered severaly. It was, however, decided not to risk a general encounter, and the place was abandoned by Colonel Floyd on the following morning Satyamangalam is now the head-quarters of a deputy tehnilär and stationary submagnetrate. It is an ordinary market town without special features.

Sivasamudram (' Sea of Siva') - An island on the Cauvery over in the Kollegiil tilluk of Combatore District, Madras, saturated in 12° 16 N and 77° 13 E. It has given its name to the famous Falls of the CAUVERY, which he on eather aide of it and which are referred to in the account of the river. The stream on both sides is very rapid and is fordable in only one place, and that with difficulty, even in the hot season. The island is thus a place of great natural strength and was consequently in ancient days the site of a considerable town. Tradition excubes the original foundation to a petty king from Malabar in the stateenth century. His son and grandson held it after him, and it was then deserted for some years until reoccupied by a Vivsore chieftam called Ganga Raya. Some picturesque stones were gleaned about him and his successors by Buchanan 1 when he vinted the place m 1800. They seem to have greatly extended the fortifications, remains of three lines of which still exist, to have built the temples and palaces with the rums of which the island is strewn, and to have bridged the two arms of the river which surround it. The place remained in their family for only three generations, and they were then forcibly asspossessed by another local chieftain. The town shorth afterwards fell mito runs. In 1800 it was inhabited only by two Muhammadan hermits, other people being afraid of the demons and tigers which were declared to haunt it. In 1818 st was granted to a native gentleman named Kamaswama Mudainer, who cleared away the jungle with which it had become overgrown and rebuilt the old linkings leading to it Two temples, which are claborately sculptured and contain inscriptions, still stand on the reland. There is also the tomb of Pri Wali, a Muhammadan saint which is much reverenced by Musalmans and is the scene of a large annual festival

Thruppur—Town in the Palladam stable of Combatore District, Madras, situated in 11° 6 N and 77° 22 E on the main line of the Madras Railway, 30 miles from Coimbatore Population (1901) 6 056, of whom over one fifth are Muhammadans. It is a place of some commercial activity, and, being surrounded by cotton soil, contains two cotton presses. A few palampores and chintres are made, a cattle for takes place in connexion with the annual car festival, and the Government pony shows to encourage pony breeding were until recently held here.

¹ Mycore, Come a, and Malaher, vol 1, p 406 ff (Madras repent, 1870).

Udamaipet Town.—Head-quarters of the töbes of the same name in Coimbatore District, Madras, situated in 10° 36′ N. and 77° 15′ E. Population (1901), 10,503, of whom about one-eighth are Muhammadana. It is an important centre of trade in cotton, grain, and cloth; and its chief inhabitants belong to commercial classes, such as Komatis, Nättukottai Chettis, and Muhammadana. Its blacksmiths are well-known for their skill. A District Munsif is stationed here.

SOUTH ARCOT DISTRICT

Arcot, South, District (Arket) -A martime Dutrict in the south east of the Madras Prendency, lying between 11° 11' and 12° at N and 78° 28 and 80° o E, with an area of 4,217 aguare males. It gets at name from the fact that it was the southern portion of the Mushal Subak of Arcot, which word is supposed to be derived from are hade, 'six forests,' the province containing my forests in which tax rucks are fabled to have dwelt. It is bounded on the east by the Bay. of Bengal, on the south by Tanjore and Trichmopoly, from which Districts it is separated by the Collegeon and Vellar respectively, on the west by Salem, and on the north by North Arcot and Chingleput Within it has the French Settlement of PONDICHERRI On the west rue the KALEAVAN Hills, a group between 3,000 and 4,000 feet high connected with the SHEV arous, and farther to the north west is part of the JAVADI HILLS the main portion of which is in North Arcot Between these two groups the Chengam Pass gives access to Salem District, and the PONNATI AR runs down from the Mysore plateau and crosses the Duariet on its way to the Bay of Bengal In these western and north-western parts small rocky hills appear in isolated groups, the most remarkable being PRUVAN MANALM (2,668 feet) a peak with long sloping sides for the most part covered with jurgle and accessible only on foct, but otherwise the whole District is a flat plain, with a few and ridges near the coast, and near Pondicherry and CUDDALORE, the head quarters, some low plateaux of latentic formation.

The rivers of the District all flow from west to east into the Bay of Bengal. The chief of them is the Pomnayar, already mentioned, which flows for 75 miles across it. It runs in a sandy bed with low banks, receives no tributanes of any importance within the District, and finally falls into the sea about 3 miles north of Cuddalore. North of this is the Gangee river, known also as the Varahanadi, which rises in the Tindivaniam takek and flows into the sea near Pondicherry South of it is the Gadilam, 59 miles in length, which has its sources in the Kallakurchi takek, is principally supplied by the Malattär, a natural channel which connects it with the Ponninger, and runs into the sea past the runed bastions of Fort St. David, a mile north of Cuddalore and close to the

mouth of the Ponnarylle. In the extreme south the Vellär forms the boundary between South Arcot and Trichmopoly for some distance and then strikes into the former District. It flows for 8s miles within the District and has a tributary of some importance, the Manimuktanadi, which drains the Vriddhächalam tile. The Vellär enters the sea at Porto Novo. Its banks are high, and it is affected by the tide for 7 or 8 miles above its mouth. The southernmost of all the rivers, the Coleroon branches from the Cauvery in miles above. Trichmopoly, separates South Arcot from Tanjore for 36 miles of its length, and falls into the sea 3 or 4 miles south of Porto Novo. These last two rivers are navigable for a short distance from their mouths by small boats, they were once connected by a shallow caral, but this is now to a great extent silted up

The greater part of the District, including its central and anoth western portions, is composed of Archaean greaters and schreta, with a large development of very massive greaters and schreta, with frequent large included blocks of more home blendic rocks and bands of hypersthene granulite (charnockite). To the east and south east rocks of Cretaceous age appear in detached areas round Pondicherry and Vernon-Echalan. The Cuddalore sandstone of Upper Tertiary or younger age is about 100 feet thick, overlying to the east and unconformably each of the Cretaceous patches. It consists of unfosmingerous, ferrugmous, soft sandstones and grits. They are covered by a surface of low level, ferrugmous, and often conglomeratic laterite. River, deltaic, and coast alluvium and blown sand occupy all the low lying areas.

The flora of the hills is almost entirely of the direct decidnous ! type, characterized by the abundance of sandal wood, Zasyphus, and Townsha, and, more rarely, teak and blackwood. Else where distance from the sea and the absence or presence of cultivation are the determining factors in the nature of the plant growth. In the plan between the hills and the sea occurs the mixture of deciduous and evergreen flora usual in the southern Districts, while along the coast are the brackish water forms in the salt marshes and the seaside flora along the beach. Some of these last are of great practical use in binding the sand, which would otherwise encrosed upon cultivation Itomesa belobe the seasure convolvulus, sometimes called the 'goat's foot creeper,' and Spanific squarrants, a thorny great, the spiked circular flower heads of which become detached when the seed is impering and roll along at a great pace before the wind, are conspactions in this respect,

The hills contain a few leopards, bears, sender, spotted deer, and wild hog, and the smaller game usual to such localities. In the low country there are partialge, haves, quail, some perfowl and single-fowl, rock pigeons, here and there a floriesn, numerous teal and wild duck, and an unusually plentiful supply of since. The principal kinds of sea fish are the positive, the sole, the seer, the whiting, the value and the value (a species of Schrout)

The charate of South Arcot is fairly dry and on the whole bealthy, though malaria is endemic in parts of the Kallakurchi, Vinddhachalam, and Tiruvannama: Albebr Epidemic cholera is a frequent visitor, and there is some elephantiasis along the coast. The temperature is moderate near the sea, but rises slightly farther mland. The mean at Cuddalore is 82°, the average maximum being 91° and the average minimum 74°.

The District depends upon both monsoons for its ram. The average annual fall during the years 1870-99 was 43 inches the minimum being 25 inches in 1876, the year before the great famine, and the maximum nearly 72 inches in 1884, the year of the high floods referred to below. As in other east coast Districts, the fall is highest near the coast (52 inches), lighter in the central tablets (45 inches), and smallest (39 inches) in the area farther inland, the variation occurring chiefly in the supply received from the north east monsoon.

There were high floods in the Gaddam in 1864, in the Vellär in 1871, in the Ponnayar in 1874, and in the Coleroon in 1852. But the worst floods on record were those of 1884. During the four days from November 4 to 8 of that year no less than 32 inches of rain fell in Cuddalore, and the Gaddam overflowed into both the Old and New Town. In December of the same year, further heavy rain occurred, the fall on the 19th alone being 15 inches. The Gaddam and Ponnayar both came down in flood, and their stroums joined and for twenty four hours rushed through Cuddalore New Town to the sea. Both the Gaddam and the Ponnayar bridges near die town were partly swept away, the railway and telegraph lines were breached, several lives were lost, and it took ten or twelve years to recover from the damage done to irrigation works, roads, and bridges.

Like the rest of the shore of the Bay of Bangal, South Arcot is notonous for severe storms, and perhaps no coast in the world of equal length has proved so disastrous to the British many as that of this District. The hurricane of April 13, 1749, wreaked three vessels between Cuddalore and Tort St. David

One of them was a serty gun ahm and another was Admiral Boscawen's flagship, 74 guns. With the latter 750 men perished. A cyclone in December, 1760, scattered the blockading fleet in the Pondicherry roads, when three King's ships were stranded and three more foundered with 1,100 Kuropeans on board. During a humanne in October, 1763, three King's ships were dismarted. There were also violent storms on the coast in 1752, 1784, 1795, 1808, 1820, 1831, 1840, 1842, 1853, 1871, and 1874. In the storm of 1853 seven vessels were wrecked between Cuddalore and Porto Novo, besides native craft.

The curty history of the District probably resembled generally H that of the rest of the Chola country. It seems to have been under the Chola sovereigns from the earliest period of their supremacy, though it is possible that portions of the north fell into the hands of the Pallavan of Kanchi or Conjecteram From the thirteenth century it appears to have followed the fortunes of Fanjore Towards the close of the fourteenth cen tury inscriptions in the District mention four chiefs calling themselves Udan ir One of them seems to have been conquered by the Vijayanagar king Harihara II, an macription in whose name, dated in 1382, has been found. About 1646 the Dutnet passed under the Bij'tpur Sultans, from whom, thirty years later, it was wrested by Sivan, the founder of the Maratha power in India. With the fall of Gingee, in 1698, the imperial Mughels succeeded the Marathas as masters of the country The British connexion dates from 1674, when its Bijlipur ruler invited the Governor of Fort St George to establish factories in his territories. Negotiations were immediately opened, but no active steps were taken till 1682, when a settle ment was made at Cuddelore. This proving unfortunate, another was established at Kümmedn, a village about 12 miles north of Pondicherry In 1683 the Cuddalore factory was reoccupied and a fresh station was also founded at Porto Novo The latter, however, was closed in 1687, the year in which the deed of grant for all the three factories was received from Harp Raps, the Maratha governor of Gingeo. In 1690. Fort St David about a mile north of Cuddalore, with all the country 'within the randome shott of a great gun' round about it, was purchased from the Marithia, and the effects at kum medu and the other factories were removed to it. The villages so acquired are known to this day as the 'cannon ball villages' On the capture of Fort St George m 1746 by the French Admiral La Bourdonnaus, Fort St. David became, for any years,

the head-quarters of the Company on the Coromandel Coast. During the Carnatic Wars of 1749-61, when the English and the French first interposed in the internal politics of India, South Arcot played an important part, Cuddalore, Fort St David, Gingee, Tytiga Durgam, Vraddhachalam, Tiruvan namaka and other places being the objects of repeated attacks and counter attacks. In 1758 Cuddalore and Fort St. David. were taken by the French, and the fortifications of the latter were almost levelled to the ground. In 1760, however, Eyre Coote, after his great victory over the French under Lally at Wandiwash, retook Cuddalore, and the French ahandoned Fort St David on his advance. In 1767 Haidar Alt, who had by this time usurped sovereign authority in Mysore, entered the Carnatic by the Chengam Pass in the north west corner of the District, but he was defeated by Colonel Joseph Smith both there and again at Firuvannamaka. In 1780 he again entered the District by the same route. Some fighting took place at Cuddalore, Tyaga Dungam, and Chidambaram, but the most decisive battle in the campaign occurred at Porto Novo. Hardar was signally defeated by Sir Eyre Coots, and the victory did much to save the entire Presidency In 1782, however, Cuddalore was again taken by the French, and on the cessation of hostilities in 1784 was again restored to the British In 1790 Tipu, the son of Haidar, made a demon stration before Tyiga Durgum and took Tiruvannimalai and Perumakkal, about 5 miles to the east of Tandramam, treating the inhabitants of the former with great cruelty. But his farther progress was checked by the news of Lord Cornwallus's advance into Mysore, to meet which he promptly quitted the Carnatic

The District passed under English management for the first time in 1781, when, during the war with Haidar, the Navab of Arcot assigned the revenues of the Carnatic to the English. In 1801, with the rest of the Carnatic, it was ceded in full sovereignty to the British by the Navab, Azim ud daula. On the outbreak of the war between England and France in 1792, Pondicherry was taken without difficulty, but was finally restored to the French in 1816.

Prehistoric dolmens are found in parts of the Tiruvannitualia and Tirukkoyilir takels. They are chambers formed of are granite data, with a circular hole some 18 inches in chameter on the eastern side; and some of them are as large as 6 feet by 8 feet, and 7 feet high. They contain pottery, hones, and implements, and the local legend explains that they were the homes of a race of dwarf risids, 60,000 strong. In the middle

of one large group of them at Devanir, near Thronkovillin, stands a huge slab of grante 14 feet high, 8 feet wide, and 6 inches thick, which is locally known as the hacker had or 'stone of audience'. Other antiquities are the temples at Chidambaram, Introvannămalai, Vriddhachalam, and Srimuan war. Military architecture is represented by the famous stronghold of Gingee and Tyaga Durgam, a rock fortress which commands the Atur Pass into Salem District.

South Arcot contains 2,745 villages and ten towns, but only 7 per cent of the people live in the towns and three-fifths of 5 them reside in medium sized villages of from 500 to 2,000 inhabitants. The District is divided into eight tability, which are named after their respective head quarters. Particulars of them, according to the Census of 1901, are appended —

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Telek	Are a sp	Towns	Villeges	Populeto	Parent De	Percentage Popular Percentage Inc.	Muscher persons the r ad soc
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Trevernamaler	1 000	ī	400	244 065	44	+ 18 8	13,418
Villaperum	goy	۱,	200	g13 607	616	+ 39	ss Ago
Treakkoydiir	384	1	370	285,068	488	+ 91	17 609
Kallakorchi	871		367	269,377	309	+120	11,991
Coddelore	448	8	224	36I 776	808	+ 73	31 755
Chidatobaram	401	3	886	294,868	734	+ 40	29,129
Vriddhächelers	£76	I	206	247,240	420	+ 10 2	17 603
Daninet total	, 217	10	3-745	2,349,894	480	+ 86	166 746

The population in 1871 was 1,755,817, in 1881, 1814,738, in 1891, 2,162,851, and in 1901, 2,349,894. The chief towns are the three municipalities of Cuddalori. (population, 52,216), Chidaubaram (19,909), and Tirluauramalai (17,069). South Arcot is below the average in area, but in the number of its inhabitants and the density of its population, it stands third and fifth respectively among the Districts of the Prendency. Despite the fact that it was severely afferted by the great famine of 1876, and despite the constant stream of emigrants who have left it to cross the seas, especially to the Straits and Burms, the population has increased by 34 per cent since 1871, the corresponding increase for the Presidency as a whole being 22 per cent. During the decade 1891–1901 the sparsely peopled areas of Tiruvannamalai, Kallakurchi, and Viiddhachalam exhibited a marked advance. About 94 per

cent of the population are Hindus, the remainder being about equally divided between Musalmans and Christians. The District also contains (chiefly in the Tindivanam sides) 5,896 Jams, which is a larger number than in any other District of the Presidency except South Kanara and North Arcot. Tamil is everywhere the vernacular.

Like most of the southern Districts, South Arcot contains a spemking of Telugu castes, such as Kapu and Kamma (cultivators), Balna and Komaii (traders), Odde (earth workers), and Chakkiliyans (cobblers) but the great meas of the people are Tamils More than a fourth of all the Pallis and Pararvans in the Presidency are found in South Arcot, they number respectively 728 000 and 556,000, and together constitute more than half the population of the District. Next in mimbers come the \ellalas (146,000), the great Tamil cultivating caste, and the Idayans (104,000), who are shepherds. A somewhat currous community are the Malaryalis of the Javadi and Lalrajan Hills They appear to be Tamil, who took refuge there at some remote period and whose customs have been affected by their environment. The jungle tribe of the Irulas is found in places, but some of its members have settled down in the villages as coolies

The population of South Arcot depends more exclusively upon cultivation and the tending of flocks and herds than that of any other area in the Province except the Agencies of the three northern Districts 82 per cent of the inhabitants submitting by these callings. It is also noticeable that of the landholders and tenants more than 99 per cent (or 56 per cent of the entire population) returned themselves in 1901 as actual cultivators as distinguished from mere holders of land, and that there were ninety two landholders to every eight tenants. Seeing that Pallis and Parasyana form more than half of the population, the inference appears to be that these castes are using from their former position of agricultural series to be holders of land of their own

Of the Christians of the District, 9s per cent are Roman Catholics. The Catholic Mission, an offshoot of the famous Madura Mission, is the oldest. After working for several vesus in the Gingee country, its members built the first Roman Catholic Church at Cuddalore Old Iown in 169s. They underwent many calameters during the wars of the Carnatic between 1749 and 1761. The next oldest mission is the Danish Evangelical Lutherun, established in 1737. This also suffered greatly during the wars between the English, the

French, and Mysore. It suspended its work in 1807, but has been since revived by the Society for the Propagation of the Gospel. This body began work in 1825, the Leiping Evangeheal Lutheran Musicon in 1851, the Danish Musicon in 1861, the Society of the Reformed Church of America in 1868, and the Highways and Hedges Musicon in 1882.

Two-thurds of the land of South Arcot is of the red ferru (ginous class, and nearly all the remainder is black cotton, soil Sandy earth occurs only in comparatively small areas : near the coast, and is useful for little but growing cashew and casuarina trees. The red class predominates everywhere except in the southern talaks of Chidambaram and Vriddhachalam, where black cotton soil (which is esteemed the better of the two) covers about 70 per cent of the anable The red soil is best for 'dry' crops, and the black, owing to its retentiveness of moisture, for "wet" cultivation. Vriddhachalam contams good soil, but has less tank or channel trigation than any other taluk, and, as water is not found near the surface, wells are scarce. The Kallakurchi, Firuvannimalai, and Tindivanam taleks on the west and north, which are mamly covered with the poorer red soil, possess a large number of rain fed tanks and progetion wells. Tindivanum contains about one-fourth of the tanks and wells in the District, and the number of wells in the other two *talki*s more than doubled m the decade ending 1900-1. In the centre of the District, Tirukkoyilür depends chiefly upon canals and tanks, and Villupuram upon tanks and wells. Nearly all the image. tion from the river channels is in the two southern Atlacks of Cuddalore and Chidambaram

The busiest sowing months on 'dry' land, where light showers are enough to start a crop, are from July to October, and 'wet' land is chiefly cultivated between September and November.

The 5,217 square miles of which the District consists are (nearly all ryetwars, the samusdari and 'whole mām' lands covering only 349 square miles. The area for which particulars are available is 4,885 square miles, which in 1903-4 was distributed among the eight takks as shown on the next page

The principal food-grams are rice, combin (Paraustum typhections), varage (Parpalum scrobantetum), and rage (Eleutime cornorms), the areas under which in 1903—4 were 907, 475, 414, and 215 square miles respectively, or 31, 16, 14, and 7 per cent respectively of the total area cropped. Rice is grown extentively in all the tāluks, but particularly in Chidambarum, which contains one-fourth of the area under it within the Dutrict Elsewhere condu, variety, and rage are the chief staples. Fruit trees and vegetables occupy a considerable area in the Coddalore, Tindivarian, Villupitium and Chidambaram talkhi, and in the last of these a large extent is cultivated with vege tables. Ground but (Arealis Spagess) is by far the most

Telep	Aren dana u necoulta	Formis	Calenabia Vante	Cultivated	Irregulari
Тифусици	817	49	31	loo	130
Turgrameraku	932	313	81	37 9	78
/ ulluparem	400	35	23	34 I	109
Toral Loyslar	473	76	28	136	45
kallal archi	€50	91	96	522	75
Caddalote	437	23	23	308	76
Chademberran	401	13	11	305	188
Vnddhadata	478	-	23	346	45
Destruct total	4 88 4	664	317	a 84b	792

amportant industrial crop. More than two thirds of the whole area under it in the Presidence is found in this District, and it occupies as much as so per cent of the net area cropped. It is grown principally in Tindevanam, Villupuram, Tirukkoydur, and Cuddalore, and is exported to France from the ports of Cuddalore and Pondicherry. Gingelly is grown all over the District but chiefly in Vinddhachalam Villupuram and Cuddalore, and inches still covers considerable areas in the two latter of these tables and in Tindevanam and Tirukkoydur.

The extension of the area of holdings has amounted to about 28 per cent during the last thirty years but considerable tracts , in the lurinannemals, and Kallakurchi teleki are still infoccu. pred. Little has been done to improve the quality of the crops grown, except in the case of ground not. The cultivation of this fell off considerably some years ago owing to the deteriors. tion of the local seed, but the recent introduction of fresh seed from Mauritius improved the standard and resulted in a great extension of the area under it. The cultivation of indigo has of late declined owing to the competition of the German synthene die During the sixteen years ending 1904 more than 3 lakes has been advanced under the Land Improvement Loans Act, chiefly for the sinking and repairing of wells in Tiruvanna make and Kallakurchi, where the cultivators have largely availed themselves of the favourable terms introduced to encourage well smiring

The independin cattle are of no particular breed and are not

remarkable. The western täheler, with their large areas of waste land and forest, are used as a grazing-ground for the cattle and sheep of Tanjore and other neighbouring areas. A very large cattle fair is held at Tiruvannāmaksi during the annual Kārtigai festival, and animals are brought there in large numbers from Mysore and other places. Two kinds of sheep are bred: the Kurumba or woolly variety and the Semmeri or brown, hairy bread. The former is chiefly reared for its wool and the latter for its flesh. Goats are valued for their skins, but their numbers have recently decreased, owing perhaps to the closing to them of the 'reserved' forests. Working cattle are fed on rice-straw and castles and right stalks. The cultivator is well aware of the value of the manure of all these animals, and they are commonly penned in the fields at right.

Except in Tiruvannamaini there is considerable irrivation in I all the talker; and the District as a whole is one of the bestwatered areas in the Presidency, as much as 792 square miles, or 32 per cent., of the total area of systmeri and 'minor inden' land under cultivation having been irrigated in 1903-4. There are, altogether, 83 dams, 205 river channels, 107 spring channels, and 3,243 tanks, besides 100,720 wells. Next to North Arcot, the District contains the largest number of wells in the Presidency. Of the total irrigated area 487 square miles are supplied from tanks, 167 from Government canals, and 112 from wells. The best-watered table is Chidambaram, which is served by the systems of channels depending on the Lower Anicut on the Coleroon and the Sharistope dam across the Vellar. Virtuam tank under the Lower Anicut is the largest reservoir in the whole of the Presidency. The irrigation system next in importance after these two takes off from the dam across the Pounsiyar at Tirukkoyiltr, and to this most of the fertility of the Tirukkoyilür and Villupuram tilhals is due. The areas watered by these three important systems in 1903-4 were respectively 85,000, 34,000, and 28,000 acres. There are also three dams across the Gaddam and one at Pelandorni on the Vellar, but they are of less value. The former supplement irrigation in the Cuddalore tilks, and the last supplies parts of the Vriddhachalam and Chidambaram taluar. The numerous tanks (artificial reservoirs) form the chief source of irrigation; and, though comparatively unimportant individually, they supply nearly half the 'wet' area in the District, an extent even larger than that fed by the channels. Most of them are small affairs under the control of the Revenue department, but in the aggregate about Rs. 50,000 is annually spent upon their up-keep.

The forests of South Arcot are not at present important as timber producing areas, as they had been completely rumed before conservation began, but they have expabilities. As the figures already given show, nearly half the total area has in the Tiruvannimala: Aliah. These are largely the forests on the spur of the Javadis called the Tenmalais, which runs down into the District. The next largest area is in Kallakurchi. The firest on these low hills resembles other growth of the same elevation, while elsewhere are found sea shore casuarma plantations and swamps of the mangrove-like Assaussias. There are no areas of waste land that can be called real forest, and for the most part more or less permanent cultivition marches with the hunts of the Reserves. The total includes about 14 per cent, of the District area, and nearly three-tenths of it consist of the hill forests already referred to, and a large block of 76 square miles of broken ground on the banks of the Ponnanar where it emerges from Salem Dustrict. The remainder is divided into 144 blocks scattered all over the Dutnet, consisting mainly of the poorest and most open scrab.

The forests are principally used at present for grazing, and are annually resorted to by about 130,000 cattle and 149,000 sheep. Gosts used to overrun the Reserves completely, but their numbers have been considerably reduced in recent years. A limited amount of firewood and of very small and inferior timber is consumed, and a large quantity of leaves for manure. Minur products are collected to the value of Rs. 17,600

The hill forests contain the better species of timber trees usually found in this part of the Prendency, namely, teak, reservoid, temper (Phrecurpes Maringain), Terminalia lemen tota, Hardwicks binais, and Ausgustus latifolia. In a limited tree on the small plateau of the Tenmalan sandalwood is very common, and will be workable again in a few years.

Besides the 'reserved' forest, a notable strench of forest land in the west commiss of the eastern part of the Kalräyan Hills, reaching an average height of 2,500 feet. With the exception of a small area of outlying alopes on the north and east, the whole of this tract, or an area of about 200 square miles, in pager land and under no control at all. It drains to the north into the Ponnasyar and south-east into the Vellar, and forms an important source of water-supply for the neighbouring plants; but it is very much degraded by panallelish (shifting cultivation and burning) and general fires, and is gradually getting worse.

The District is not specially noted for any mines or minerals. The iron over of the Kallakurchi, Turuvannamalat, and Tiruk-

keyilür illinks attracted considerable attention at the beginning of last century. In 1830 Mr. Heath of the Madnas Civil Service succeeded in establishing the Porto Novo Iron Company, the object of which was to manufacture but iron from these ores. It erected extensive works at Porto Novo and later at Tiruvannāmalai, but the enterprise failed after a protracted trial of many years and the company was finally wound up in 1867. The chief trouble was the scarcity of fuel. Other drawbacks were technical difficulties in producing iron free from flaws. The melancholy history of the enterprise is set out in detail in the Gasetter of South Arcot.

Fine-grained sandstones are found in Vriddhächslam, and blue limestones containing found shells in the Tindivanam statut. The southern bank of the Gadilam river near Parauti is noted for its plastic clay, and the hills of Gangavaram, Gingee, and Tyaga Durgam for very handsome granitoids susceptible of a high polish. In and near Tirukkoyilär and Tiruvannämalai, and in Tiruvakkarai in the Villupuram tälist, excellent granite is quarried, which is utilized by the Nättukottai Chettis in the repairs they are carrying out in the temples at Chidambaram, Tiruvannämalai, Tiruvennanallür, and other places.

Indigenous arts or manufactures are of no particular importance; but the steam sugar factories at NELLIEUPPAM and, Tiruvennanalitir and the distillery at the former place belonging to the East India Distilleries and Sugar Factories Company (capital £400,000) provide employment on an average for 1,050 hands. Indigo, salt, jaggery (coarse sugar), pottery, olls, and cotton fabrics are also largely manufactured. In 1901 there were 567 indigo-vats in the District, and in the manufacturing season these provided employment for about 4,800 persons. But, owing to the competition of the artificial dye, this industry is on the decline. It is hoped in some quarters that the excellence of the natural indigo and the solidity it gives to the cloth may perhaps re-establish it in the European market, if only the primitive methods for extracting the dye can be replaced by an improved and cheaper process. In the coast tabular of Tindivariam and Cuddalore, salt is extensively mannfactured in Government salt-pans; jaggery is made at several places; and the revival in recent years of the cultivation of ground-nuts has given a great stimulus to the manufacture of oil, which is chiefly extracted from ground-nuts and gingelly seeds (Sessesses indicess). In Penruti fine pottery and excellont earthen toys are made. The weaving of pure silk is carried on in the Chidambaram tilbal. Weaving in cotton mixed

with silk is practised in a number of villages round Bhuvanagiri, Chidambaram, and Mannärgudi in the Chidambaram tehid, and at Pauruti, Kurunippädi, and Chennappanävakkanpalaiyam in the Cuddalore takid. The hailis made in these villages are exported to the Straits Settlements, and the other fabrics are used locally and also exported to Mysore, North Arcot, and Chingleput. In the Turuyannämalai, Viiddhachalam, and Kallakurchi täliski, coarse woollen blankets are made by the Kurumha ceste.

South Arcot is a maritime District and has two ports, Cudda. lore and Porto Novo The former is far the more important almost the whole sea borne trade of the District being carned on through it. The total value of the imports and exports by sea m 1903-4 was 20 lakhs and 137 lakhs respectively chief exports are ground nuts, oil cake, cotton piece-goods, skins, nice, ground nut oil, fresh vegetables, turmeric, tobacco and cigars, chillies consinder, and custor. Indigo was exported in large quantities until recently, but now, owing to low prices and especially to the continued fall in the foreign market, only a normal trade in it continues with Europe. The District does the largest trade in ground nuts in the Prendency France re its most valuable customer, taking as much as 60 lakhs in 1903-4 out of a total export valued at 78 lakha. Ground. nuts are also sent to the United Kingdom, Germany, and Austria. Ground nut oil and oil cake, cotton piece goods (especially those known as kashs), and akins are chiefly exported to the Straits Settlements. Rice is sent mainly to Ceylon. The principal imports direct into the District by sea are areca. put from the Straits Settlements and palmyra tumber from Ceylon for housebuilding purposes. Except in articles which are collected for export by sea, the inland trade of the District is small. The chief exports by kind are sugar from the factories at Nelhkuppam and Turuvermanathur, salt from the Merkanam and Cuddalore factories, jaggery, rice, indigo, and woollen blankets. The chief imports are cattle from Mysore and other parts, fruit and yugetables from Salem and North Arcot, and many foreign made articles from Madras dalore and Panruti are the chief centres of general trade Pondicherry, though attracted in French territory, is, for pur poses of trade, practically part of the District, and the native merchants there do a very large portion of its business. The chief trading castes are the Chittis of different classes. The Nattukottas subdivision of this caste are the chief money lenders. Most of the antennal trade as carried on at weekly

markets, the largest of which are those at Panruti and Tiruk-koyilür, and at the fairs held during the religious festivals at Tiruvannāmalai, Vriddhāchalam, Chidambaram, Mailam, and other places.

The metro-gauge South Indian Railway from Madma to R Tuticorin enters the District at Olakkur and runs across the " tähde of Tindivaram, Villupuram, Cuddalore, and Chidambarum for a distance of 88 miles, passing through the ports of Cuddelore and Porto Novo. A branch from Vilhapuram, 24 miles in length, which was opened in 1879, communicates with the French Settlement of Pondicherry. The line from Villapuram to Dharmavaram in Anantapur District, constructed in 1802, puses through the Tirukkovilur and Tiruvannilmalai titlels for a distance of 52 miles, opening up a tract of country which was formerly liable to scarcity of food-stuffs. The only tabule in the District which are not served by any railway are Kallakurchi and Vriddhachalam; but the construction of the Trichinopoly-Tirukkoyillir chord line, now under contemplation, will remove this want and place the District in closer communication with the fertile delta of the Cauvery and other food-producing tracts. This new line will cross diagonally the rough quadrilateral of about 100 miles square which is bounded by the towns of Jalarpet, Cuddalore, Tanjore, and Erode, will be of miles in length. and will effect a saving of 37 miles in the present route between Trichinopoly and the north. If, as has been suggested, it is continued northwards to Arkonam and constructed on the standard gauge, it would connect the District directly with the broad-gange systems in the north of the Province.

With the exception of the northern half of Kallakurchi and the western half of the Vriddhächalam tilities, the District is well provided with roads. The total length is 1,318 miles, of which 901 are metalled and 317 are unmetalled. Eleven miles of the former and 66 miles of the latter are maintained by the Public Works department, and the rest are in charge of the local boards. There are avenues of trees along 1.080 miles. The coasting steamers of the British India Steam Navigation Company touch periodically at Cuddalore.

South Arcot is not frequently exposed to famine, as it is contains large irrigation works and ample means of external communication; but scarcity is often felt when there is a general failure of food-crops due to deficiency in the local rains, and high prices caused by distress elsewhere naturally react upon the District.

The year 1806-7 was a disastrous season, and the distress which occurred necessitated the opening of relief works and the remission of revenue amounting to 64 lakhs. There was distress in 1823-5, and in 1833-4, the year of the Guntur famine, the prices of grain doubled, 18,000 persons were employed on relief works, and large remissions were again necessary. In the famine of 1866 relief works were also opened in this District, and prices continued high till 1868 The drought in 1873-4 caused the loss of much of the 'dry' crops In 1876-8, the years of the great famme, South Arcot was more severely affected than ever before or since, relief works were opened, and the number of persons relieved at the height of the distress (September, 1877) was as large as 83,000, or nearly 6 per cent of the total population prices of grain rose to a level which was imprecedented, and on Christmas Day, 1876, the distressed people of Cuddalore plundered the bazars and caused a senous not. The total amount spent on gratintous relief and on relief works was of lakes. During the decade ending with 1900-1 there was no famine in the District, but failure of local ruins in 1891 2 and 1898-9 created distress in parts of the Kallakurchi, Firekkoyilur, Tindiyanam, Cuddalore, and Chidambaram tahdis

For general administrative purposes, the District is divided into four subdivisions, one of the officers in charge of which is usually a member of the Indian Civil Service, the others being Deputy Collectors recruited in India. These subdivisions are Tindivanam, comprising the I indivanim, Tiru sann'imalai, and Viliupuram täluks, Chidambaram, comprising the Chidambaram and Vinddhächalam talishs, Tiruk koyilur, comprising the Kallakurchi and I irukkoyilur talishs, and Cuddalore, which contains only the Cuddalore täluk A taktaldar is posted to the head quarters of each of the täluks, and, except in the case of kallakurchi, is assisted by one or more deputy taktaldars. There is also a stationary submingistrate at each head quarters station. The District contains the usual superior officers.

For the purposes of civil justice, a District Munsif holds his court in each tabak except I urusannamaka and kalla kurchi, while Cuddalore has two. There are no Subordinate Judges, and all appeals from the District Munsifs he to the District Court, which is also the Court of Session. In the matter of grave crime, the District ranked eleventh in the Presidency in 1904. Murders are not common. Ordinary

thefts form a large percentage of the senous crime. Cattle thefts, robberies, and decomes are also of frequent occurrence. though the number of these fluctuates, as elsewhere, with the state of the season. The perpetrators of a large proportion of the robbenes and decorties are the thieving class known as the Veppur Paramans who has in Vepptir in the I raddhachalam tahuk and in a number of villages round about They sometimes join the thieving Auravans of Salem District. A large percentage of the cases of theft in the Lirukkoyilur, Kallakurchi, and Vriddhichalam takda are not reported to the police, and the owners eventually get back their property by paying a sum of money, the amount of which depends upon the value of the property lost, to well known go-betweens, who are often the descendants of former robber thiefs and are still known locally as solutars. This practice is exceedingly difficult to break down. The proximity of Pondicherry affords considerable facilities to had characters in evading arrest and renders the work of the police more than usually difficult

The revenue administration of the District passed into the I hands of the East India Company along with the rest of the Curiatic in 1801. Prior to that date the Company thad possessed only a small tract of territory round Fort. It David, which was known as the District of Cuddalore The revenue of this territory was generally farmed out to tenters. The land appears to have been divided into rice and small grain land, but the assessment levied on each class is not now ascertainable and the determination of the exact rates was probably left to the renters. Apparently these were moderate, as previous to the Missore Wars the country is stated to have been in a highly prosperous state.

little is known of the revenue history of the rest of the District either under the Hindu Rajas or the Muhammadan rulers till the time of Nawab Muhammad Ali, when the famous Rayon, the Nawab's manager, first fixed the revenue by measuring the fields and conducting a rough survey. For some years Rayon collected the revenue without the intervention of renters. Afterwards he was himself appointed by the Nawab the renter of the whole Sadad (the assessment payable by him being 13½ lakhs of pagodas), and he continued as such until his death in the war with Haidar Ali Under Rayon's settlement 'wet' land paid an assessment in kind, and 'dry' and garden land paid a money rent the

amount of which depended on the crops raised. The assessment in kind was converted into money at the average selling price before it was collected.

The system of furning the resenue and the rates of assessment introduced by Rayou were continued for some time after 1801 by British Collectors In 1802-3 Mr Garrow made the first attempt to effect a settlement of the demand with individual ryots. In 1804-5 the Districts of Manninguide and Chidambaram were annexed. A systematic survey and settlement was miroduced by Mr Ravenshaw in 1806-7 in the major portion of the District as then constituted 1808 in accordance with the policy of a permanent settlement which had come into favour, whole villages were leased out to renters for a period of thru, years for a fixed sumwhere, this system proved a fullure. In the same year the District of Cuddalore was incorporated with that of South Arcot and some of its northern talkar were transferred to the Chritoor and Chinglepot Districts. In 1811 the triennial lunes were replaced by decermial leases, but these also proved a complete failure. The Board of Directors eventually recorded their disapproval of the lease system and of a permanent settlement and consequently the ryalwars settle ment was restored in 1821. Four years later, the system of annual aettlements and the collection of the revenue in instalments somewhat on the lines now in force was adopted and in the same year the survey and settlement first partially introduced by Mr Ravenshaw was extended to the rest of the District. The rates which this officer had fixed were however, found to be too high and in 1854 revised rates more favourable to the cultivators were introduced while Mr. Malthy was Collector. The area under cultivation than increased enormously. In 1859 the rates of assessment on 'dry' land were still further reduced. In the same year part of the (hetput talua was transferred to North Arcot District, and South Arcot assumed us present dimensions. Mr Malthy a settlement continued till 1883, when a new survey and a resettlement were begun which were completed in 1894. The survey proved that the occupied area had increased by y per cent, on the extent shown in the old accounts, and the settlement enhanced the total revenue by 3 per cent or a little more than a lakh of rupees. The average assessment on 'dry' land is now Rs 1-3-4 per acre (manmum, Rs 3-8-0, minimum, 6 annea), and on 'wet' land R4 5-6-0 (maximum, Rs 9, menimum, Rs. 1). The revenue from land and the

total revenue in recent years are given below, in thousands of rupees —

	168 0-1	1890-1	1900-1	1901, 4.
Land revenue . Total revenue	86,01 41,48	39 % 52 (3	46,01 60,40	49 57

Outside the municipal towns, local affairs are under the Imanagement of the District board and the four talak boards of Cuddalore, Chidambaram, Tirukkoydur, and Tindivanam, the areas controlled by which correspond with those of the four administrative subdivisions of the same names. The total expenditure of these boards in 1903-4 was 4 92 lakhs, of which about 58 per cent was laid out on roads and buildings the chief source of income is, as elsewhere, the land cess there are twenty one Union panchayats, which manage the affairs of the same number of small towns

Police administration is in charge of a District Superinten 'dent at Cuddalore, aided by an Assistant Superintendent' stationed at I mukkoyilur. There are 86 police stations and the force in 1904 numbered 17 inspectors, 796 constables, and 124 head constables and also 2,043 rural police. Bendes the Cuddalore District juil 17 subsidiary juils have accommodation for 337 prisoners male and female.

According to the Census of 1901 South Arcot stands ninth among the twenty two Districts of the Prendency in the literacy of its male population and twelfth in that of its female popula tion, 138 per cent of the former and 05 per cent of the latter, or 7 I per cent of the total, being able to read and write Education is most advanced in the Cuddalore and Chidombaram tobeks, and most backward in Kallakurchi and Tiruvannamalai The District is the only one in the Presidence in which the Christians are worse educated than either Hindus or Muham madans. The total number of pupils in 1880-1 was 15,302. in 1890-1, 32,189, in 1900-1, 44,215 and in 1903-4, 48,271 At the end of 1903-4 South Arcot contained 1,540 educational institutions of all kinds, of which 1,178 were classed as public, and the remainder as private. Of the former, 1,141 were primary schools, secondary institutions numbered so, and there were y training and other special schools, and an Arts college at Cuddalore. In the public and private institutions taken together, 4,476 girls were under instruction. Of the 1,178 public institutions, 16 were managed by the Educational department, 99 by the local boards, and 11 by the municipalities, while 530 were sided from public funds, and 528 were unaided but conformed to the rules of the department. Only 6 per cent of the boys and 18 per cent of the girls under instruction have advanced beyond the primary classes. Of the male population of school-going age 20 per cent were in the primary stage, and of the female population of the same age 2 per cent. Among Musalmans, who, however, form a very small proportion of the population, the corresponding percent ages were 50 and 6. About 4,000 Panchama pupils were under instruction at 168 schools especially maintained for their education. The Arts college, which is of the second grade, is the St. Joseph's College in Cuddalore. The total expenditure on education in 1903-4 was Rs. 2,39,000, of which Rs. 92,000 was derived from fees. Of the total, Rs. 1,48,000, or 62 per cent, was devoted to primary education.

There are 8 hospitals and 16 dispensaries in the District. The former are intuited at the tālak head quarters, and the latter are mostly at the deputy takildārs' stations. They contain 140 beds for in patients, 1,700 in patients and 248,000 out patients were treated thiring 1903, and 9,100 operations were performed. The total cost of the maintenance of these institutions was Rs 55,000, most of it being met from Local and municipal funds.

The figures of 1903-4 show that the District was below the average of the Prendency as regards the number of persons protected from small-pox, and that the number of deaths from that disease was above the average. The number of persons successfully vaccinated during the year was 28 per mille of the population, compared with 30 per mille for the Province as a whole. Vaccination is compulsory in the three municipal towns and in eleven of the Unions.

[W Francis, District Gesetteer, 1905]

Tindivanam Subdivision.—Subdivision of South Arcot District, Madras, consisting of the Abids of Findivanam, Tindivanamanalat, and Villupuram

Thedivanam Taluk.—North-castern taluk of South Arcot District, Machas, lying between 12° 2′ and 12° 29′ N and 79° 13′ and 80° E, on the shore of the Bay of Bengal, with an area of 816 square miles. The population rose from 316,018 in 1891 to 338,973 in 1901. It contains 473 villages and one town, Trumpivanam (population, 11,373), the head-quarters of the states and of the subdivision. The demand for land revenue and ceases amounted in 1903–4 to Rs 7,78,000. The taluk ranks that in point of area in the District, and is the only one

which has no direct irrigation from channels. It is a level plain, standing at a rather higher level than the rest of the District and draining south eastwards. On the western border are the picturesque hills surrounding Girgue, but along the coast much of the land is low lying and swampy

Turuvannamalai Täink .-- North western taluk of South Arcot District Madras, lying between 11° 58 and 12° 35 N and 78° 38 and 79° 17' E. In the west a spur of the JAVADI HILLS of North Arcot, locally known as the Termalaus ('south hills) runs down into it, and in the south it includes the corner of the KALRAYAN HILLS round about Chekkadi, which is sometimes called the Chekkadi Hills Both these ranges are malarious They are inhabited by Malaryalis a body of Famila who at some remote period settled upon them and now differ connderably from their fellows in the plams in their ways and customs. On them are large blocks of 'reserved' forest m which grow sandal wood, teak, and a few other timber trees, forming the most important of the Reserves in the District Firmwannim day us the largest talket in South Arcot, its area being 1 009 square miles, and its population which numbered 244,085 in 1901 compared with 205,403 in 1891, increased during that decade by 188 per cent, showing a higher rate of growth than any other. It is still, however, the most sparsely peopled in the District, the density being only 242 persons per square mile, compared with the District average of 450. It contains 400 villages and one town, the municipality of Tiguv va-NAMAI AI (population, 17,060), the head quarters. The rainfall is the lightest in South Arcot, being 36 mehes annually compared with the District average of 43 inches, and the tilide is more lable to scarcity than its neighbours. The demand for land revenue and cesses amounted in 1903-4 to Rs 4,32,000

Villapuram Think—Tabel m South Arcot Dustrict, Madras, lying between 11° 47' and 12° 10 N and 79° 15 and 79° 52' L on the coast of the Bay of Bengal, with an area of 509 square miles. The French Settlement of Pondicharra is within its boundaries. It contains 300 villages and one town, Villapuram (population, 11 26), the head quarters. The population, which commits mainly of Hindus, rose from 301,746 m 1891 to 313,607 in 1901, the rate of increase being 3 9 per cent, the lowest for any tales in the District. The demand for land revenue and cesses amounted in 1903-4 to Ra 6,65,000. Villapuram is an almost level plain, devoid of natural features, covered with the fertile alluvium of the Pommatyan beam, and sloping gradually to the sea.

Tirukkoyilür Sublivision.—Subdivision of South Arcot District, Madres, consisting of the tibids of Tirukkoyilür and Kallaruschi

Thrukkoyliur Taltuk - Central mland taltuk of South Arcot District, Madres, lying between 11° 38' and 12° 5' N and 79° 4' and 79° 31' B, with an area of 584 square miles. The population in 1901 was 285,068, compared with a61,026 m 1891. It contains 350 villages and one town, Teruxkoyilür (population 8,617), the head quarters of the talak and of the The nemand for land revenue and cesses sobdisunon amounted in 1903-4 to Rs 5,84,000. Two of the chief invers of the District, the Ponnaivar and the Gadilam, cross the talket. and on the former, 3 miles below Trrukkoyilin, a dam has been constructed for arregation which feeds some of the most important channels in the District. In the west the teles is diversified by a few stony granute hills and ridges, but the resu consists of a featureless plain of alluyial soil sloping gradually down to the sea.

Kallakurchi -- Western 4244 of South Arcot District, Madras, lying between 11° 34 and 12° 4' N and 76° 38 and 79° 13 L, with an area of 873 square miles KALRANANS, one of the only two hill ranges in the District, skirt its western border, and south of them the Attir Paisleads into Salem District. The population in 1901 was 269,377, having risen from 239,405 in 1891 There are no towns, but it contains 367 villages, of which Kallakurchi, the head quarters, is situated on the trunk road from Cuddalors to It is the second largest killed in the District, and the second most sparsely peopled. The demand for land revenue and cesses amounted in 1903-4 to Rs 4,02,000. In the hills m the west use several small streams, which are unliked for irrupation by means of rough stone dams. The hill villages, which number 96 are divided into 3 palaryams or estates The subgirs or chiefs obtain their revenue chiefly by leasing out the forests and by a politax on their tenants, who are all Malanaha by caste. There is no irrigated cultivation on the hills, the principal 'dry' crops grown are ragi, cambi, traci (Science Mahoe, a poor kind of millet), and parage. Bamboos and timber of various kinds are taken down to the plants, and sold for housebuilding and other purposes.

Cuddatore Taluk — Head quarters takek and subdivision of South Arcot District, Madras, lying between 11° 30' and 11° 52' N and 79° 26' and 79° 47' E, on the coast of the Bay of Bengal. It is more thickly populated than any other,

the density being 808 persons per square mile compared with the District average of 450. The population was 361,776 m 1901, and 361,303 m 1891. It contains three towns—namely, the municipality of Cuppalors (population, 52,216), the head quarters of the taket and the District, Panklin (15,206), and Nellikuppan (13,137)—and 224 villages. The demand for land revenue and cesses amounted in 1903—4 to Rs. 5,23,000. Large areas are planted with casuarina and fruit trees. The taket consists for the most part of a level alluvial plain of great fortility but few natural features. Diagonally across it, however, runs the plateau of Mount Capper, a high lateritic table land, and on this the rich alluvium gives place to a barren red soil in which little will grow

Chidambaram Subdivision.—Subdivision of South Arcot District, Madras, consisting of the talaks of Chidambaram and Vriddelichalam

Chidambaram Taluk.-Southern taluk of South Arcot Dustrict, Madras, lying between 11° 11 and 11° 30 N and 79° 19 and 79° 49' E, with an area of 402 aquare miles Coleroon bounds at on the south, separating at from Lamore, and the river VETLAR runs across it, thus, unlike the rest of the District, it contains wide impated areas natered by large works from these rivers. The channels from the Lower Amout across the Coleroon supply about 246 villages. The population in 1901 was 294,868, compared with 282,275 in 1891. It contums 336 villages and two towns namely, Chipambaram (popul lation, 19,909), a municipality and the head quarters of the tolack, and Porto Novo (13,712), a scaport. The demand for land revenue and cesses amounted in 1903-4 to Rs 9,13,000. The density of population is as high as 734 persons per square mile, the Dutrict average being 450, and the annual rainfall, which is about 51 inches, is beauter than in any other table

Vriddhitchalam Tilink.—One of the two southern Advict forming the Chidambaram subdivision of South Arcot District, Madras. It lies between 11° 23' and 11° 41 N and 78° 50 and 79° 34' E, and has an area of 576 square miles. The population rose to 242 140 in 1901 from 219,675 in 1891. It contains 295 villages and one town, Vriidhachalam (population, 9,433), the head quarters, a place of some historical importance. The demand for land revenue and cesses amounted in 1903-4 to Rs. 5,83,000. It is essentially an unurigated region, the 'wet' cultivation being only one-eleventh of the 'dry' area. The rivers running through it are the Villar and its tributary the Manimuktänadi, the waters of the latter at Vriddhächalam.

are considered especially sacred. The AlAss contains no hills and is not picturesque. Large areas are covered with a black soil on which cotton and acacus flourish, but which is very dreary is appearance during the dry season.

Chidambaram Town (Chit Ambalam 'the atmosphere of wisdom')—Head quarters of the Mhih of the same name in South Arcot District, Madras, situated in 11° 25' N and 79° 42 E, on the South Indian Railway. The population in 1901 was 19,909, of whom 18,627 were Hindus and 1,199 Musal mans. A municipality was constituted in 1873. The receipts and expenditure during the ten years ending 1902—3 averaged Rs 24,800 and Rs 25 100 respectively. In 1903—4 they were Rs 25 800 and Rs 27 600 the former consisting chiefly of the proceeds of the taxes on houses and land. An estimate for a water supply amounting to Rs 282,000 is now under consideration.

During the Carnetic Wars Chidambaram was a place of considerable strategic importance. In 1749 the ill fated expedition under Captain Cope against Devikottai halted here on its retreat to Fort St David. In 1753 the French occupied it In 1759 an attempt by the Linglish failed, but it capitalated to Major Monson in 1760. Later on, Haidar Ah improved the defences and placed a garraton in the great temple. In 1781 Sir Evre Coote attacked the temple, but was driven of

Chidambaram is principally famous for its great Sixa temple. This covers an area of 39 at res in the heart of the town, and is narrounded on all four index by streets about 60 feet wide It contains one of the five great huganit, namely, the 'air hagess,' which is known also as the Chidambara Rahasyam or the 'secret of Chidambaram No lingum actually exists, but a curtain is hung before a wall, and when visitors enter the curtain is withdrawn and the wall exhibited, the 'largue of air beaut, of course, mysible. The temple is hold in the highest reverence throughout Southern India and Ceylon, and one of the annual feetivals held in December and January is largely attended by pilgrams from all parts of India. As an architectural edifice it is a wonderful structure, for it stands in the middle of an allurual plant between two rivers where there us no building stone within 40 miles, and yet the outer walls are faced with dressed granite, the whole of the great area enclosed by the most walls is paved with stone, the temple contains a hall which stands on more than 1,000 mono lithic pillers, into the gateways are built blocks of stone 30 feet high and more than 3 feet square, and the reservoir,

which is 150 feet long and 100 feet broad and very deep has long flights of stone steps leading down to the water on all four sides. The labour expended in bringing all this and other material 40 miles through a country without roads and across the VFLLAR river must have been enormous.

The temple contains five Sabhas or halls, besides shimes to Vishno and Genesa. Its age and architecture are discussed at some length in Fergusson's History of Indian Architecture, which also contains several woodcuts of different parts of it The Nattukottan aubdivision of the Chetti caste have recently been restoring the building at considerable cost. It possesses no landed endowments, and is managed in a most unusual way by the members of a sect of Brahmans called Dikshitars, who are peculiar to Chidambaram and depend entirely upon public offerings for their own maintenance and for the up keep of the temple. The management may be described as a domestic hierarchy, each male married member of the sect possessing an equal share in its control. No accounts are kept. The Dikshitars take it in turns to perform the daily Except the temple the place contains little of m # Orahin There is a rest house built by a Vättukotiai Chetti m which poor pilgrims are fed daily, and many other rest houses provide accommodation for travellers. A high school m the town is managed by the trustees of the well-known Pachayyappa chanties

Cuddalore Town. - Head quarters of the tilhak of the same name and of the Dutrict of South Arcot, Madras, situated m 11° 46 N and 70° 46' E, on the trunk road from Trichmo poly to Madras, 118 miles by road and 125 by rail south of Madras and 12 miles south of PONDICHERRY It is made up of several different quarters, chief of which are Cudda lore New Town, consisting of Turupapuliyur, noted for its ancient Siva temple, and Manyaluppam, containing the prin cipal public offices and European bungalous picturesquely attuated among fine trees on the four sides of a large open plain, Devanampatham, in which are the ruins of old Form ST David, and Cuddalore Old Town, a seaport and the chief tracing centre of the District. Two nvers, the Ponnaryar and the Gaddam, pass through it to the sea, and the name of the town is supposed to be a corruption of Kudal ur, meaning 'junction town,' or the place where the two rivers meet. These rivers are hable to heavy floods, and in 1884 they united and their waters swept through the town for twenty four hours. The current tore across the plan round which the offices stand to a depth of 5 feet, and a youth narrowly escaped drowning close to the old time gun there

The population of Cuddalore in 1871 was 40,490, in 1881, 43,545, m 1891, 47,355, and m 1901 52 216. It has thus increased steadily in size, and is now the eleventh largest town m the Presidency Of the total in 1901, 47,833 were Hindus, and the remainder were about equally divided between Cuddalore was constituted a Christians and Muselmans municipality in 1866 The municipal area extends over 13 square miles including 18 villages and hamlets. The recents and expenditure during the ten years ending 1902-3 averaged Rs 50 500 and Rs 49 300 respectively. In 1003 4 the meome was Ra 59,000, chiefly derived from the house and land taxes (Rs 16 600) and tolls (Rs 13 600), and the expenditure was Rs 57 500 including conservancy (Rs 16,800), roads and building, (R4 21 200), and the municipal hospital (which contains beds for 48 in-patients) and dispensaries (Rs 10,400) Being the administrative head quarters of the District, Cuddalors, contains all the chief public offices and courts a Protestant and a Roman Catholic church, the District pal &c basides the sea-customs and marine establish The Cohector's residence is the old Garden House of the Governors of Fort St. David, which was the scene of some fierce fighting in the wars with the French. The port of Cuddalore is the largest in South Arcot Coasting steamers call periodically, and foreign vessels also touch to load with ground puts the chief export of the District. The total imports and exports in 1903 4 were valued at so lakhs and 137 lakhs. respectively. The old-established firm of Musics. Parry & Co. has an important branch office here, which is located in the building originally constructed for the Fast India Company's factory and afterwards used as the District jail, and other firms are being attracted by the ground not trade

Cuddalore has a reputation for bealthmess, and elephantisms, which was at one time painfully frequent, is now disappearing from the Old Town, owing to the supply of filtered water from a reservoir near by. This supply is, however, only brought down to one part of the town and is limited in quantity. A more ambitious scheme has been prepared, but its cost (3.7 lakbs) is more than the municipality is able to afford at present. A dispensity for women and children, near the railway station in New Town, built by Raja Sir S. Rama swami Mudahyar, is maintained from Local and municipal funds. Rails and fabrics of all mixed with cotton are the

chief manufacture. On the outskirts of the town, on Mount Capper (the Bandapolain Hill of Orme), is the new District just, which was constructed by convict labour and has accommodation for 406 prisoners. Considerable quantities of cotton goods, including carpets and towels, are manufactured in it by the convicts.

Cuddalore is the educational centre of the District, the chief institutions being St Joseph's College, a French Roman Catholic establishment of the second grade possessing a boarding house for native Christians, and the Cuddalore College, which is managed by a local committee and teaches up to the Matriculation standard

The history of Cuddalore dates as far back as 1682, when the Company opened negotiations with the Khan of Giveau for permission to settle here. In 1684 a formal lease was obtained for the present port and the former fortress, of which no remains now exist. During the next ten years trade in creased so rapidly that the Company erected Fort St. David for the protection of the place and rebuilt their warehouses. On the fall of Madras in 1746, the head quarters of the Presidency were transferred to Fort St. David, where they remained till 1752.

David, Fort St - A runed fortress in the Cuddalore takek of South Arcot District, Madras, situated in 11° 45 N and 79° 47 E, on the bank of the Gaddam rever near the point where it falls into the Bay of Bengal, about 14 miles east of Cuddalore New Town The place is now included within the limits of the municipality of Coppalors, and several I uropean bungalows have been erected within its crumbling It has as stirring a history as almost any spot in the Prendency The Dutch and the French both had settlements here at one time. There was a small fort, which had been built by a Hindu merchant named Chinnia Chetti, and after the capture of Gragoe by Sivan in 1677 this passed into the possession of the Marathas 1 rom them it was purchased by the Linglish in 1690, the sale including all the land round to the distance of a 'randome shott of a great gun'. The great gun was carefully loaded and fired to the different points of the compass, and wherever its shot fall a boundary mark was The villages so obtained are called the 'cannon ball villages' to thu day. The place was originally known in those days as Tegnapatam or Devipatam, and it has been conjectured with much probability that it was named Fort 51 David by Ehlm Yale, then Governor of Fort St George,

who was a Welshman, in honour of his country's patron saint. From 1725 onwards the fortifications were greatly improved and the place became of considerable strength. Upon the capitulation of Madras to the French under La Bourdonnais in 1746, Fort St. David became the British head-quarters on the coast, and the Company's Agents there assumed the general administration of affairs in the South of India. They successfully resisted an attack made in the same year by Dupleix. Clive received his first commission here in 1747 and was appointed its Governor in 1756. In 1758 the French under Lally (see the graphic account of the affair in Orme's History) captured and dismantled the fort, but abandoned it in 1760 when Eyre Coote marched on Pondicherry. In 1782 they again took it, and restored its defences in 1783 sufficiently to withstand an attack by General Stuart. It was given back to the English in 1785. A curious feature of the fortifications was the subterranean passages under the glacia. These appear to have run completely round the fort, thus forming a safe means of communication for the garrison. At short intervals other galleries, striking off at right angles and terminating in powder chambers, served as mines. At the south-east corner the gallery run down to the edge of the sea. Some of these passages are still to be seen.

Ginges (Gings).—A famous rock-fortress in the Tindivanam tāhuk of South Arcot District, Madras, sitneted in 12° 15' N. and 79° 25' E., on the road from Tindivanam to Tiruvannamalai. The interest of the place is chiefly historical. existing village is a mere hamlet, with a population (1901) of only 524. The fortress consists of three strongly defended hills-Rajagiri, Kistnagiri, and Chandraya Drug-connected by long walls of circumvallation. The most notable is Rajagiri, on which stands the citadel. It is about 500 or 600 feet high, and consists of a ridge terminating in a great overhanging bhiff facing the south, and falling with a precipitons sweep to the plain on the north. The citadel is on the summit of this bluff. At the point where the ridge meets the base of the bluff, a narrow and steep ravine gives a difficult means of access to the top. On every other nide it is quite inaccessible, the sides of the rock rising sheet from the base to a great height. Across this ravine the Hindu engineers built three walks, each about so or ag feet high, and rising one behind the other at some little distance, which rendered an attack by escalade in that direction almost impracticable. The way to the summit leads through the three walls by several gateways, but at the very top this portion of the rock is divided by a narrow chain as feet wide and 60 feet deep from the main mass of the hill, and the only way into the utadel is across this chain. The fortifiers of the rock artificially prolonged and heightened it, threw a wooden bridge across, and made the only means of ingress into the citadel through a narrow stone gateway facing the bridge and about 30 yards from it, which was fortified on the aide of the citadel with flanking walls fitted with embrasires for guns and loopholed for musketry. It has been said with truth that in the conditions of warfare then existing this gateway could have been held by ten men against ten thousand

It is not known with certainty who constructed the fort but historical accounts and the nature of the buildings point to the conclusion that the credit of building it belongs mainly, if not entirely, to the ancient Vigivanagar dynasty. The round towers and cavahers show traces of European super vision, and some of the more modern embrasures were the work of the French. The great lines of fortifications which cross the valley between the three hills, enclosing an area of 7 square miles, were evidently built at different periods. In their original form, each consisted of a wall about 5 feet thick, built up of blocks of granite and filled in with rubble, but subsequently a huge earther rampart about 25 or 30 feet thick, has been thrown up behind these walls, and revetted roughly on the inside with stone, while at intervals in this rampart are barracks or guard rooms.

Several rums of fine buildings are satuated within the fort Of these the most remarkable are the two temples the kalsana Mahal the gymnasium, the granaries, and the Idgah. There are various picturesque maniapams, or buildings supported on stone pillars, on each of the hills, and a large granary on the top of Kustnagm. The most attractive run of all, perhaps, is the Kalyana Vahal, which consists of a square court surrounded by rooms for the ladies of the governor's household In the middle of this court is a square tower of eight storey, about 80 feet high, with a pyramidal roof. The first are storeys are all of the same and pattern namely, an arcaded veranda running round a small room about 8 feet square, and communicating with the storey above by means of small steps The room on the seventh storey has now no verands, but there are indications that one formerly ensited. The topmost room is of smaller are than the others

The principal objects of interest in the fort are the great gun

on the top of kninger the Raja's bathing stone a large smooth slab of grante. 15 feet square and about a foot thick which has near the spot where the palace is said to have stood and the prisoners well. This last is a singular boulder about 15 or 20 feet high, poised on a 10ck near the Chakrakulam reservoir, and surrounded by a low circular brick wall. It has a natural hollow passing through it like a well, and the bottom having been blocked up with masonry, and the unper edges smoothed

on the top of Rajagin; the Raja's bathing stone, a large smooth siab of granite, 15 feet aguere and about a foot thick, which lies near the spot where the palace is said to have stood; and the prisoners' well. This last is a singular boulder about 15 or so feet high, poised on a rock near the Chakrakulam reservoir, and surrounded by a low circular brick wall. It has a natural hollow passing through it like a well; and the bottom having been blocked up with measury, and the upper edges smoothed with a little mesonry work plastered with fine, a natural dry well was formed. Into this prisoners are said to have been thrown and allowed to die of starvation. The top of the boulder can be reached only by means of a ladder, and the hollow in it has now been filled in with rubbith. The metal of which the gun is made shows little or no rust. It has the figures 7560 stamped on the breach. A little to the south of Rajagiri is a fourth hill called Chakkih Dreg. The summit is strongly fortified, but these defences are not connected with those of the other hills.

Ginges is familiar to the Tamil population throughout Southern India by means of a popular balled still sung by wandering minstrels, which has for its subject the story of the fate of the genius loci, Desing Raja. According to the bulled, this Desing was an independent ruler of Gingee who paid no tribute to any power. The emperor Amangseb had remitted all payment as a reward for his skill in managing a home that no one else could ride. The Nawab of the Carnatic was jealous of the Raja's independence, and on his refusing to pay tribute invaded his territory. In the fight that followed Desing Raja, though at first apparently successful owing to supermetural interference, was eventually defeated and killed. His wife the Rant committed sant, and the Nawab, out of respect for her memory, built and maned after her the town of Ramper in North Arnot District. As mentioned above, Gingee was a stronghold of the Vijayanagar dynasty, which was at the height of its prosperity at the beginning of the sixteenth century, and was finally overthrown by the allied Mohammadan Sultims of the Doccan in 1565 at the battle of Tablecti. It was not till 1638, however, that Banda-ullah Khile, the Bilitpur general, with the assistance of the troops of Golconds, captured the fort. The division of the Bijlipur army which effected this cupture was commanded by Shithly, father of the Austria Sivaji. In 1677 the fort fall to Sivaji by etningen, and remained in Markthi hands for twenty-two years. In 1690 the armies of the Delhi emperor under Zolfikar Khan were dispatched against Gingee, the emperor being bent upon the entirpation of the Mantitha power. The siege was prolonged for eight years, but the fort fell in 1698, and afterwards became the head-quarters of the Musalman standing army in the province of Arcot. In 1750 the French under M. Bussy captured it by a skilful and daringly executed night surprise, and held it with an efficient garrison for eleven years. Captain Stephen Smith took the place after a five weeks' siege in 1761. In 1780 it was surrendered to Haiklar All, and it played no part of importance in the subsequent campaigns.

Gingee long enjoyed the reputation of being one of the most unhealthy localities in the Carnatic. The French are said by Orme to have lost 1,200 European soldiers during their eleven years' tenancy of it. There is no trace, however, of any burial-ground where these men were interred. The spread of cultivation and attention to sanitary improvements seem to have made the locality more salubrious, for its character for feverishness is not now considered remarkable. The fortress is entirely deserted. The Government has made an annual grant for the preparation of the ruins, and has recently imped orders for the preparation of estimates for the complete repair and restoration of some of the main buildings in the fort.

Neithtuppant.—Town in the Cuddalore tālak of South Arcot District, Madras, situated in 11° 46' N. and 79° 41' B., on the South Indian Railway. The population in 1901 was 13,137. It is a Union under the Local Boards Act (V of 1884). Next to Porto Novo, it contains more Musalmins than any other town in the District. A large distillery and sugar factory close to the railway station afford employment to about a thousand hands. In and about the town Considerable areas are cultivated with sugar-cane to supply the factory, and the betel vine is largely grown, the leaves being exported to Madras and other places.

Pannuti (Assest).—Town in the Cuddalore state of South Arcot District, Madras, situated in 11° 46' N. and 79° 32' R., on the northern bank of the Gadilam river, and on the trunk road from Cuddalore to Salem, and also on the South Indian Railway. The population in 1901 was 15,806; but it has experienced great fluctuations owing to variations in the ground-ent trade, for which it is one of the chief centres. It is a Union under the Local Boards Act (V of 1884). It is one of the chief trading centres in the District, grain and

ground nuts from Turukkoyılür, Kallakurchi, and even the eastern part of Salem District being carted to it by road, and many native merchants, besides an English firm, have branches of their business within it. Brick making is carried on to a large extent, as the clay of the place is specially suitable. The town is famous for what are known as Panruti toys. These are made of clay, and represent vegetables and fruits of various kinds as well as figures of gods and men

Porto Novo -Town and port in the Chidambaram tilluk of South Arcot District, Madras, situated in 11' 30 N and 70° 46 E, at the mouth of the river VIII AR Population (1901), 13 712 more than a fourth of whom are Musulmans It is known in Tamil as Parangipettas, or 'I propeans' town, and mone of the two ports of the Dustrict. The Portuguese founded here during the latter part of the myteenth century the first European settlement on the Coromandel Coast within the limits of the Grager country. An English settlement was established in 1683. In 1780 the town was plundered by Hardar Ali, and in July of the following year was fought in its vicinity the farrous buttle between Sir Tyre Coote and Hainer, in which the English won a signal victory. The battle was one of the most decisive of all those fought with Hudar's troops for had the Linchish retreated the whole Carnatic would have been at Haidar's meres. The place was twice captured by the French and was finally restored to the English Porto Novo is a Umon under the Local Boards Act and contains a salt factory. It had once a considerable trade with Cevion and Achin but this has declined of the exports and imports in 1903-4 was Rs 12,50,000 and Rs 59,000 respectives. The only special manufacture is a species of max made from the leaves of the scres pine The Porto Novo ronworks attained much notoriety in the early years of the last century. Their melancholy history is referred to in the account of South Arcot District

Srimushnam — Village in the Chidambaram talak of South Arcot District, Madras, situated in 11° 23 N and 79° 24 L Population (1901), 3,418 It has an old Vishnu temple, which is considered to stand next to that at Srirangam in point of sanctity. The idol of Bhuvarahaswami in it is alleged to be self-created. The shrine is said to have been destroyed three times during the Kali Yuga, and to have been rebuilt as it now is by Achyotappa Naik of Tanjore. Among some fine carvings in a black stone (probably trap) are four well executed figures, said to represent Achyotappa. Naik and his three brothers.

The local history of the temple relates that the locality where it is situated was called Srimushnam ('destruction of prosperity'), because Vishim lived there after rescuing the world from the depths of the ocean, whither it had been carried by the demon Hiranyakaha. The drops of water which ran off his body when he emerged from the sea made the reservoir attached to the shrine. There are two great annual festivals. At one of them the idol is taken to bathe in the sea at the point on the shore opposite the supposed meeting place, out at sea, of the waters of the Vellar and the Colcroon

Tindivanam Town — Head quarters of the talks and subdivision of the same name in South Arcot District, Madras, attuated in 12° 15 N and 79° 39 E, on the South Indian Railway. The correct name of the place is Tintinganam, meaning 'tamarind jungle'. It commits of several little hamlets, one of which, Gidangal was once a fortified place. The ruips of ramparts and ditch still exist. The place is a Union under the Local Boards Act, and its population in 1901 was 11,373

Turnickoysing Town—Head quarters of the taluk and subdivision of the same name in South Arcot District Madras, situated in 11° 58 N and 79° 12 E, on the south bank of the Ponnaiyar. The South Indian Railway passes through it, and there is a proposal to construct a branch to Inchinopoly. The place contains two famous temples, one dedicated to Vishnu and the other to Siva. The population in 1901 was 8,617, and it is a Union under the Local Boards Act. Not far from it is a dam across the Ponnaiyar which supplies an important series of irrigation channels.

Thruvannimals: Town—Head quarters of the taket of the same name in South Arcot District, Madras, situated in 13° 14 N and 79° 4 E, with a station on the Villipsium Dharmavaram branch of the South Indian Railway. The population in 1901 was 17,069, of whom 14,981 were Hindus, 1,932 Musalmana, and the rest Christians. Roads diverge in four directions, and it is an entirepot of trade between South Arcot and the country to the west. The name means 'holy fire hill,' and is derived from the isolated peak at the back of the town, 2,668 feet above the sea, which is a conspicuous object for many miles around. The story runs that Siva and Parvati his wife were walking one exeming in the flower garden of Kaulasa, when Parvati playfully put her hands over Siva's eyes. Instantly the whole world became darkened and the sim and moon ceased to give light, and though to Siva and his

wife it seemed only a moment yet to the unfortunate dwellers m the world the negled of darkness insted for years pentioned Siva for relief, and to purish Parvatt for her thought lesaness he ordered her to do penance at various holy places Turnyampämalai was one of these and when she had performed her penance there Siva appeared as a flame of fire at the top of the hill as a sign that she was forgiven. A large and beautifully sculptured temple stands at the foot of the bill and at a featival in the month of Kartigai (November December) the priests light a high beacon at the top of the hill in memory of This featival is one of the chief cuttle fairs in the The hill and the temple commanding the Chengam District Pase into Salem played an important part in the Wars of the Between 1753 and 1790 they were subject to Carnatic reneuted attacks and cantines. From 1760 the place was a British post, and Colonel Smith fell back upon it in 1767 as he rented through the Chengam Pass before Hudur M and the Nizira Here he held out till reinforced when he signally defeated the ribes. In 1 90, after bein, repulsed from Type Dargam 7 mu attacked the town and captured it. Tirusan number was constituted a municipality in 1896. The receipts and expenditure up to 1902 3 averaged Rv 18800 and Rs 18 500 respectively. In 1903 4 the means most of which was derived from tolls and the house and land taxes, was Rs 20 800 and the expenditure was Rs 19,100 municipal area covers 11 square miles. One of the chief reasons for bringing 1 under sam up control was that choken. used frequently to break out at the annual festival and be carned by the fleem, pilgrims far and wide through the District The great want or the place is a proper water supply, and experiments are in course of institution

Typing Durgum —A small fortified hill in the taluk of Kallakurchi in South Arcot Listrict, Machas, summed in 11 45 N and 19° 5 E about 7 miles east of Kallakurchi town, at the intersection of the old road from Arcot to Inchinopoly with the road from Salem to Cuddalore. Its position on these main routes made it formerly of great strategical importance, and it was regularly fortified and gurnsoned. I the the fortress of Immunication, it formed one of the bulwarks of the District against invasion from the west and was the scene of much hard fighting in the Carnatic Wars. Between 1757 and 1780 it was regularly invested five tunes and blockaded once, and it repeatedly changed hands between the English, the French, and the Mysore ruler. It formed that

rendezvous of Haider's troops before joining Lally at Pondicherty, and here they again collected when retreating before Coote. In 1790 Captam Phint repulsed the attack made on the town by Tipil. The hill consists of two knolls or bosses, at the foot of one of which is a pool of excellent water under an overhanging rock partly surrounded by a low masonry wall. This water is said never to go dry, and during the exceptionally minless season of 1876 there was a good supply in it when drinking water was difficult to get in the village below. This village, which is built round the hill, is known by the same name. It is a Union under the Local Boards Act, with a population (1901) of 4,125.

Viliupuram Town.—Hend-quarters of the takek of the same name in South Arcot District, Madras, situated in 11° 56' N and 79° 29 E, on the trunk road to Trichinopoly It is an important junction on the South Indian Railway, the branch from Pondischerry and the Villupuram Dharmayaram section which connects with the Southern Mahratta Railway meeting the main line here. It was taken by Captain Wood in 1760, and was then held by a British garrison to intercept communication with Gregor. It is a Union under the Local Boards Act, with a population (1901) of 11,263

Vriddhichalam Town ('old mountain') — Town in the talks of the same name in South Arcot District, Madras, utuated in 11° 32′ N and 79° 20′ E, on the road from Cud dalore to Salem on the banks of the Manimuktanadi. It was once the head quarters of a District Court and later of the revenue subdivision of Vriddhichalam, and 15 a Union with a population (1901) of 9,433. It contains an ancient and famous temple which was once fortified. During the Carnatic Wars the place changed hands more than once. Here Pigot and Clive narrowly escaped being taken prisoners by the French in 1751. It is a sacred town and many legends are connected with it.

wife it seemed only a moment, yet to the unfortunate dwellers in the world the period of darkness lasted for years. They petitioned Siva for relief, and to punish Parvatt for her thoughtleasness he ordered her to do penance at various hely places. Tiruvannămalai was one of these, and when she had performed her penance there Siva appeared as a flame of fire at the top of the hill as a sign that she was forgiven. A large and beautifully sculptured temple stands at the foot of the bill, and at a feetival in the month of Kartigai (November-December) the priests light a huge beacon at the top of the hill in memory of the story. This festival is one of the chief cattle fairs in the District. The hill and the temple, commanding the Changam Pass into Salem, played an important part in the Wars of the Between 1753 and 1790 they were subject to Carnatic. repeated attacks and captures. From 1760 the place was a British post, and Colonel Smith fell back upon it in 1767 as he retired through the Chengam Pass before Haidar Alt and the Nizam. Here he held out till reinforced, when he signally defeated the allies. In 1790, after being repulsed from Tyaga Durgam, Tipu attacked the town and captured it. Tiruvannămalai was constituted a municipality în 1896. The receipts and expenditure up to 1902-3 aremged Rs. 18,800 and Rs. 18,500 respectively. In 1903-4 the income, most of which was derived from tolls and the house and land taxes, was Rs. 20,800, and the expenditure was Rs. 10,100. The municipal area covers II square miles. One of the chief reasons for bringing it under strainty control was that cholers. used frequently to break out at the annual festival and be carried by the fleeing pilgrims far and wide through the District. The great want of the place is a proper water-supply, and experiments are in course of initiation.

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rendezvous of Haidar's troops before joining Lalk at Pondi cherry, and here they again collected when retreating before Coote. In 1790 Captain Flint repulsed the attack made on the town by 1:pu. The hill consists of two knolls or bosses, at the foot of one of which is a pool of excellent water under an overhanging rock partly surrounded by a low masonry wall. This water is said never to go dry and during the exceptionally names season of 1876 there was a good supply in it when drinking water was difficult to get in the village below. This village, which is built round the hill, is known by the same name. It is a Union under the Local Boards Act, with a population (1901) of 4,125.

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TANJORE DISTRICT

Tanjore District (Tanjoner)—A coast District in the south of the Madras Presidency, hing between 9° 49 and 11° 25' N and 78° 47 and 79° 52 E with an area of 3 710 square inites. On the north the river Collegeous separates it from Thehmopoly and South Arcot Districts, on the west it is bounded by the State of Pudukkottal and Trichmopoly District, and on the south by the District of Madura. Its seaboard is made up of two sections, one extending 7s miles from the mouth of the Coleroon to Point Califfer in the south west. The small French Settlement of Karikal is setuated about the middle of the former of these sections.

The northern and eastern portions of Tanjore form the delta of the river Cauvers, which, with its numerous beauthes, intersects and irrigates more than half the District. This tract comprises the whole of the stabils of Kumbakonam, Mayavaram, Shiyah, and Nanmlam, and parts of Tanjore, Mannargedi, Tirutturaippundi, and Negapatam. It is the best irrigated, and consequently the most densely populated and perhaps the richest, area in the Presidency. The southern portion of the District stands about 50 feet higher, and as a dry tract of country comprising the whole of the Pattukkottas taliah, the southern portion of Lanjore, and the west of Mannarguch.

The delta is a level allowed plant, covered, almost without a break, by rice fields and aloping gently towards the sea. The villages, which are usually half hidden by coco-nut palms, stand on cramped sites but little above the level of the surrounding cultivation, like low islands in a sea of waving crops. It is devoid of forests, and has no natural eminences save the ridges and dunes of blown and which fringe the sea-coast. These ridges are neither wide nor high, for the south west mornoon is strong enough to counteract the work done by the north east winds, which would otherwise gradually spread the hillocks far inland, and the heavy rainfall on the coast during the latter mornoon saturates the sand and prevents it from being carned as far as would otherwise be the case. Some protection is also

afforded by a belt of screw pine jungle which runs between the sand ridges and the arable land along a great part of the coast line. The southern seaboard of the Tirutturaippunds taluk, west of Point Calimere is an extensive salt swamp several miles wide and usually covered with water.

The non deltanc portion of the District is likewise an open plant which alopes to the east and is also destitute of hills. A small part of it lying to the south and south west of Tanjore city rises, however, somewhat above the surrounding level and forms the little plateau of Vallam. This is the pleasantest part of the District, and here, seven miles from Tanjore city, the Collector's official residence is situated.

Except the Coleroon and the branches of the Canvery the District contains no rivers worthy of particular mention but a few insignificant streams cross the Pattinkhottai taliah. The irrigation from the two former rivers is noticed in the section on Irrigation below

Unforciliferous conglomerates and randatones occups a large of the District to the south and wouth west of Lanjore, where they be, when their base is visible, on an irregular surface of gnews. Above them are disposed, in a series of fiat terraces, lateritic conglomerates, gravels, and sands which gradually sink below the alluvium. All the northern and eastern tracts are composed of river, deltaic, and shore alluvium, and blown sands.

The crops of the District are briefly described below. Its trees present few remarkable features. Bamboos and coco-nut palms are plentiful in the delta, palmyras and the Alexandrian laurel on the coast, tamarind, jack, and sum in the uplands of the south, while the slappas (Bassa longifolia) and the banyan and other figs are common elsewhere. There is, however, a general deficiency of timber and firewood, which in consequence are largely imported.

The larger fauna of Tanjore present little of interest. Except I in the scrub jungle near Point Calimere and in very small areas near Vallam, Shryali, and Viadukkur, where antelope, spotted deer, and wild hog are met with there are no wild animals bigger than a jackal. Jackala and foxes are very common, and the ordinary game bards are found in fair quantities. The nee fields afford good snipe shooting

The chimate of the District is healthy on the whole, though (hot and relaxing in the delta. As the latter widers, the in a creased breadth of the irrigated land cruses more rapid evaporation of the water with which it is covered, and hence

the country is cooler towards the sea. The delta is naturally well drained, and does not therefore suffer in point of climate as much as might be expected from the wide extension of irrigation within at. The mean temperature at Negapitam on the coast of the deltaic tract is 83°. The neighbourhood of Vallam is the healthest and the coolest part of the District resembling the Pattukottai talkië in dryness. The latter presents a contrast to the delta, massinuch as the heat is less in the inland and greater in the seaboard tracts. The great exception to the general healthness of the District is the swamp stretching west from Point Calimere. That promontors was at one time considered a saniturium, but it is now said to be feverish from April to June.

The annual ramfall in the District as a whole reaches the comparatively high average of over 44 inches. It is lowest in Arantangi (35 inches) and highest in Negapatam (54 inches). Tanjore uself receives only 36 inches on an average. Most of the ram falls during the north east monsoon, which strikes directly on the more northerly of the coast taliaks and through out these the rainfall is consequently higher than inland, but the south west rains also reach as far as this District, and are occasionally heavier than those received from the north east current.

The District has rarely suffered much from scarcity of rain, but serious losses from floods and humanics have been not infrequent. Of these disasters the most scrious was the flood in the Cauvery in 1853, which rovered the delta with water and, though few lives were lost, did immense damage to property. A flood in 1859 fortunately did little harm, but in 1871 a humanic caused much loss of life and property on land and sea. There have been several mandations in more recent times, but the regulators constructed across the branches of the Cauvery have now done much to imminize the effect of such calamities.

Up to the middle of the tenth century the District formed part of the ancient Choi a langdom. During the roign of Rajaraja I (985-1011), perhaps the greatest of that dynasty, the Choias reached the zenith of their power, their dominion at his death including almost the whole of the present Madras Presidency, together with Mysore and Coorg and the northern portion of Ceylon. Rajaraja had a well equipped and efficient army, divided into regiments of cavalry, foot-soldiers, and archers. He carried out a careful survey of the land under cultivation and assessed it, and beautified Tanjore with public

buildings, including its famous temple. During his time, if not earlier, the civil administration also became systematized. Each village, or group of villages, had an assembly of its own called the makerabka ("great assembly"), exercising, under the supervision of local officers, an almost sovereign authority in all rural affairs. These village groups were formed into districts under district officers, and the districts into provinces under viceroys. Six such provinces made up the Choka dominions. The kingdom which Rājārajā thus established and umfield remained intact until long after his death. His immediate successors were, like himself, great warners and good administrators. Tanjore ones to them the dam (called the Grand Anicut) separating the Cauvery from the Coleroon, the great bulwark of the fertility of the District, which is described below under Imgation, and also the main channels depending upon it

During the thirteenth century Tanjore passed, with most of the Chola possessions, under the rule of the Hoyada Ballalas of Dorasamudra and the Pandyas of Madura. The District probably shared in the general subjection of the touth to the Muhammadan successors of Mahk Kafur, invasion till the close of the fourteenth century, when it became part of the Hindu Lingdom of Vijivanagar, which was then rising into power. During the insteenth century one of the generals of that Lingdom declared himself independent, and in the early part of the seventeenth century a successor established a Natk dynasty at Tanjore The kings of this dynasty built most of the forts and Vaishnava temples in the District. The tragic end of the last of the line forms the subject of a popular legend to this day. He was besieged by Chokkanātha, the Madura Naik, in 1662. Finding further defence hopeless he blew up his palace and his sanana, and with his son dashed out against the besiegers and fell in the thickest of the fight. An infant son of his, however, was saved, and the child's adherent, sought aid from the Muhammadan king of Bijlipur. The latter de puted his general Venkap, half brother of the celebrated Sivaji, to drive out the usurper and restore the infant Naik Venkip effected, but shortly afterwards he usurped the throne humself and founded (about 1674) a Maratha dynasty which continued in power until the close of the eighteenth century For seventy years his successors maintained a generally submissive attitude towards the Muhammadans, to whom they paid tribute occasionally, and emissed in conflict only with the rulers of Madura and Rampad

The English first came in contact with Tanjore in 1749, when

they expoused the cause of a rival to the throne and attacked Devikottan which the RESE eventually ceded to them Ram rouned the English and Muhammad Ah agamst the French, but on the whole took little part in the Carnatic Wars The capital was beneged in 1740 and 1758, and parts of the country were occasionally ravaged. In 1773 the Raji fell into arrears with his tribute to the Nawab of Aroot, the ally of the English, and was also believed to be intriguing with Haidar Ah of Mysore and with the Marathas for military aid. Tanjore was accordingly occupied by the English as the Nawab's albes. m 1773 The Raja was, however, restored in 1776, and con choded a treaty with the Company, by which he became their ally and lanjore a protected State. In October, 1799, shortly after his accession, Rapi Sarabhoji reingned his dominions into the hands of the Company and received a suitable provision. for his maintenance Political relations continued unchanged during his lifetime but he exercised sovereign authority only in his own fort and its unmediate vicinity subject to the control of the British Government. He died in 1832 and was succeeded by his only son Sivan, on whose death without heirs in 1855 the nitual dignity became expect, and the fort and city of Tanjore became British territory

The present District of Tanjore is made up of the country thus obtained and of three small settlements which have separate histories. These latter are firstly, Devikottai and the aljoining territory, which had been previously acquired by the Company from the Tanjore Raja in 1749, secondly, the Dutch settlements of Negapatam and Nagore and the Nagore dependency, of which the first two were taken by the Dutch from the Portuguese in 1660 and anneved to the British dominions in 1781, and the third was ceded by the Raja to the Company in 1776—and, lastly, Tranquebar, which the Danes had acquired from the Naik Raja of Lanjore in 1620, and which they continued to hold on the payment of an annual tribute until 1845, when it was purchased by the Company

The chief objects of archaeological interest in the District are its religious buildings. Numerous temples of various dates are scattered all over it. Those at Liruvalur, Alangudi, and Truppundusuth are mentioned in the *Devisions*, and must therefore have been in existence as oarly as the seventh century a D. Inscriptions in old Familiand Grantha characters occur in many of them. These refer mostly to the Chola period, and none has been found earlier than the tenth century. There are a few grants by Pundya Linga. The

Mannärgudi and Tiruvadamarndür temples contain inscriptions of the Hoyada kings and some Vijayanagar grants, and many records of the later Naiks and Maräthäs exist. Of all the temples in the District perhaps the most remarkable is the great shrine at Tanjore, built by Rajamjä I, which is interesting alike to the epigraphist and to the student of architecture, being a striking monument of eleventh century workmanship, and abounding in inscriptions of the time of its founder and his successors. It is noticed more fully in the article on Tanjora City. At Kumbakonam is an ancient templo dedicated to Brahma, a deity to whom shrines are seldom erected. The Tiruvälur temple is another remarkable building

The density of population averages 605 persons per square." mile, and the Dutrict is the most thickly populated in the Presidency The tables of Kumbakonam, Negapatam, and Mayavaram, which consist of the rich and closely cultivated 'wet' lands of the delta, rank respectively fourth, fifth, and sixth in the Province in the density of their inhabitants to the square mile. The population of the District was 1,973,731 ın 1871, 2,130,383 ın 1881, 2,228,114 ın 1891, and 2,245,020 in 1901. In the decades ending 1891 and 1901 it in reased less rapidly than that of any other District, owing chiefly to the very active emigration which took place to the Straits, Burms, and Cevice. In Pattulkottas, the most sparsely peopled tabel, the advance in the period 1891-1901 was as high as o per cent but this is thought to have been due less to any extension of cultivation than to the temporary unmigration of labourers for the construction of the railway extension from Muttipet to Amntange. Of the total population in 1901 Hindus numbered 2,034,399, or 91 per cent, Musslmins, 123 053, or 5 per cent, and Christians, 86,979, or 4 per cent. These last have increased twice as rapidly as the population as a whole. The District contains eleven females to every ten males, a higher proportion than is found anywhere else except in Gamam, which is largely due to emigrants lessing their women behind them. The prevailing vernacular everywhere is Tamil

The number of towns and villages in the District is \$,529. The principal towns are the municipalities of Kumbalovan, Tanjore (the administrative head quarters), Negapatan, Māyananan, and Mammāngudi. Kumbakonam and Tanjore are growing far more rapidly than other urban areas, the rate of increase of their population during the decade ending 1901 being respectively 10 and 6 per cent, but in the same period

the population of Negapatam declined. The District is divided into the nine thinks of Tanjore, Kumbakonam, Mayavaram, Shiyali, Nannilam, Negapatam, Mannargudi, Tirutturaippundi, and Pattukkottai, each of which is called after its head-quarters. Statistics of these, according to the Census of 1901, are subjoined:—

	Number of			i 🕊	i.	dro s	8	
Tilel.	A PER SE	Towns	Villinger	Populati	Population Teams of	Terrosta Principal Services Se	Number Perturns all Pred and	
Міувчена .	181	. 3	186	147,019	P73	+0-9	26,208	
Shiy∎li	171	Υ	96	116,663	681	-1.7	10,136	
Kumbakosam .	842	3,	307	375,031	1,097	-07	43,386	
Negapatana .	240) a (180	317.507	907	-I-1	29,773	
Nanoilare	193	3 '	147	214.788	733	6	12,311	
Tenjore	689	41	7 61	407,039		0-8	44,156	
Manalignal .	106	1.	193	168,107	625	~0-0	18,013	
Turatanahptadi	485		143	151,981	177	+1.9	14.450	
Pattekkottai .	906		792	39 <u>7</u> .894	327	+8-9	18,668	
District total	3,710	19	2,510	1,145,019	6э _Б	+08	326,928	

Of the Hindu population the most numerous castes are the field-labourer Paraiyans (310,000) and Palians (160,000), and the agriculturist Vellalas (212,000), Pallis (235,000), and Kalians (188,000). Castes which occur in greater strength here than in other Districts are the Tamil Brähmans, whose particular stronghold is Kumbakonam; the Karaiyans, a fishing community; the Nokkans, who were originally rope-dancors but are now usually cultivators, traders, or bricklayers; and the Melakkarans, or professional musicians. A large number of Maratha Brähmans, who followed their invading countrymen hither, are found in Tanjore city.

Less than the usual proportion of the inhabitants subsist from the land, but agriculture as usual largely predominates over other occupations. Tanjore is not, however, an industrial centru; and the percentage of those who live by cultivation is reduced merely by the large number of traders, rice-pounders, goldsmiths, and other artisans who are found within it. It also includes an amusually high proportion of those who live by the learned and artistic professions or possess independent means.

The Christian missions of Tanjore, both Protestant and Roman Catholic, are of unusual interest. The latter date from the days of St. Francis Xavier, who is said to have presched at Negaratism in the sinteenth century, but it is doubtful whether the Dustrict was ever within the sphere of his personal activities. In the seventeenth century, however, the Portuguese certainly conducted missionary enterprise from Negapatam But, as happened elsewhere, after the decline of the Portuguese power in India the various missionary societies were involved in disputes and their influence declined. The rivalry between the Goanese and the other musicus has in recent years been put an end to by a Concordat under which a few towns have been left to the Gosnese under the Bishop of Mylapore, while the over Vettär has been made the boundary between the Jesuit mission under the Bishop of Madura, and the French mission under the Bishop of Pondicherry The Roman Catholic missions have been far more successful in proselytizing than those belonging to Protestant sects, their converts numbering 86 per cent of the Christian community

The first Protestant missionaries to visit the Dutrict were the Lutherans Plutschen and Ziegenbalk, who were sent out by the king of Denmark to Tranquebur in 1706. They were the first translators of the Bible into Tamil, and the mission founded by them was of no lattle importance throughout the eighteenth century. The most famous of its missioneries was Swartz He was at one time chaplein to the Figlish troops at frachinopoly, but subsequently he connected himself with the Society for Promoting Christian knowledge, and eventually returned to Tanjore as an English chaplain and founded the English mission there Later, the Society for the Propagation of the Gospel succeeded the Society for Promoting Christian knowledge as a missionary organization in Tanjore Eventually the Tranqueber Danish Mission, which had long been dechin ing was in 1841 succeeded by the Dresden Society, which, under the name of the Leipzig Evangelical Lutheran Mission, has extended its operations to most of the stations formerly worked by its predecessor. A Methodist mission was astablished at Mannargudi in the third decade of the last century

More than half of the District consists of the delta of the Camery. This is almost entirely composed of allivial soil, which in the west is a rich loam and gradually becomes more, arenaceous till it terminates in the blown sands of the coast, a small tract of land between the Vettar and the Vennir is a mixture of alluvial soil and limestone. Rick is grown on these lands in both June and August, so as to take advantage of the two ramy seasons. The fertility of the de ta depends almost entirely on the silt which is brought down by the

Cauvery, but so rich is this deposit that the use of manure is extremely rate except occasionally in the case of double crop lands. It would, however, perhaps be more freely used if it were less expensive. The richest lands tend to lie towards the apex of the delta, where the rice fields of Tiruvach are called, by a Virgilian metaphor, 'the breast of Tanjore', and the fertility of the country decreases as the coast is reached, the deposits of silt from the water at the tail ends of the irrigation channels being neutralized by the influx of drainage water. The produce is powest towards the south west, a fact due both to the incompleteness of the irrigation system and to the greater distance the water has to travel and the consequent reduction in the amount of silt carried.

Lacept along the sandy coast of Patinkkotian, the non-deltaic part of the District is made up of red ferrugmons soil, the irrigation of which depends on rainfed tanks and precurous streams. In the delta by far the greater part of the land is under 'wet' cultivation, and 'dry' crops are frequent only out side it. The most fertile pieces of unimigated land are the padagrais, or strips of cultivation lying between the margins of the rivers and the flood embankments, which are annually submerged for some days by the silt-laden water. Tobacco, plantains and bamboos are generally grown on these exceptionally such fields.

Land in Tanjore is munly held on material tenure the seminders and mass areas covering only 1,239 square miles out of the District total of 3,710. Statistics for 1903 4 are given below, in square miles —

Total	Area shown to a courts	l'orate	Cast vable	Cuts valed	Irregated
Mayavaram	#64		*	941	193
Shiyah	. 171		1 3	194	94
Xumberman	243			פלב ן	331
Negspetam	\$40		9	794	143
Number	294		•	240	210
Гавроне	378	' <i>5</i>	3 6	391	162
Man argun	800	ŀ	1 9	245	16,
Personal Property	484	. 10	3-8	282	124
Pattakkottai	7+1		110	401	166
Dustret total	3 435	19	204	2 419	: 448

Rice is the staple grain of the delta, being raised on 1,663 square index, or 77 per cent of the cropped area there, it is indeed the most widely grown cereal in every take, though its

preponderance is less in Tanjore and Pattukkotini. The rice chiefly consists of varieties of the two main kinds, usually known as her and pusiness. Ker nee is sown in June and reaped in September, while sussaus ripens more slowly and is cut in February after seven months' growth. The latter commands a higher price, but the Aar rice requires more water, can be grown at a more favourable season of the year, and thus yields a much more abundant crop Except between Truvadi and Kumbakonam, it is not usual to cultivate two crops on the same plot of land in the same year, indeed seven eighths of the delta contacts of single crop land. Over wide areas, however, the ryots adopt what is called sale cultivation, which consists in sowing two varieties of seed, one a quick growing kind which matures in four months, and the other a kind which requires aix months to ripen, mixed together. The chief 'dry' cereals are varaga, camba, and rags, the principal pulse, red gram and the most important industrial crops, gangelly and ground-nuts. In the non-deltaic area career is the grain most extensively cultivated, the area under it being 97 square miles Some cholose is grown in Pattirkkottai, Tanjore, Man nargudi, and Kumbakonam Coco-nut palms and plantama are numerous, and m the last named table a moderate extent as cultivated with the Indian mulberry as a 'dry' crop

Except in the Tanjore and Firutturappundi tillula, where I considerable areas are unfit for cultivation, almost every yard of the delta has long been under the plough. Little extension of the area tilled is therefore possible. Nor have the agricul tural methods in vogue shown any noteworthy advance, two matters which hinder improvement being that much of the Dustrict is owned by absentee landlords who sublet their properties, and that in a great deal of the rest the holdings have been minutely subdivided. Wells are not required, and there is little waste land to be reclaimed, and consequently the advances under the Loans Acts have never been considerable.

The delta is so closely cultivated that it contains little grazing ground, and consequently few cattle or sheep are bred Such animals as are reared locally are usually small, and plough bullocks are largely imported from elsewhere chiefly from Mysors and Salem. An inferior class of ponies is bred in small numbers at Point Calimere.

Of the total area under cultivation, 1,488 square miles, or 74 per cent, were irrigated in 1903-4. Of this extent by far the greater portion (1,261 square miles) was watered from Govern

ment canals, the area supplied by tanks was only 194 square unles, and by wells 30 square unles. The tanks and wells number respectively 734 and 7,628, and are of comparatively small importance. They are found almost entirely in the upland tracts of the Tanjore and Pattinkhotts: tāluks

As has been mentioned, the Cauvery and its branches are the principal source of irregation, nearly 98 per cent of the area watered from canals being supplied from them works which have been constructed to render the water of this river available for impation are referred to in the separate account of it. Briefly stated the position is this. The Cauvery throws off a branch, called the Coleroon, which forms the northern boundary of the District. This branch runs in a shorter course and at a lower level than the main stream, and consequently tends to draw off the greater part of the supply m the mer. Two anicuts (or dams) have therefore been constructed to redress this tendency. One, called the Upper Amout, crosses the Coleroon at the point where it branches off. and thus drives much of its water into the Canvery, and the other known as the Grand Anicat, is built across a point at which the two nvers turn to meet one another and through which much of the supply in the Couvery used to spill into the Together these two dams prevent the Colemon from robbing its parent stream of the water which is so vitally important to the cultivation of Tanjore. The supply thus secured is distributed throughout the delta by a most elaborate series of main and losser canals and channels. Many of these, encluding the Grand Anicut styll, were constructed by former native governments, but the Upper Amout and the many regulators and head-dunces which now so effectually control the distribution of the water are the work of English engineers. The Coleroon now serves mainly as a drainage channel to carry off the surplus waters of the Cauvery, but the Lower Amount built across the latter part of its course irrigates a considerable area in South Arcot and also about 37 square miles m Tamore

There are no forests of any importance in the District. In the fallows of Tanjore, Tirettural ppunch, and Shiyili, a few blocks of low jungle covering altogether 19 square miles are 'reserved', but the growth in these is dense only at Vettangudi and Kodiyakadu, and the timber is not of any great value. The blocks are of some use as grilling land and for the supply of small fuel.

Tanjore contains few minerals of importance. Quartz crystals

are found at Vallam, and laterite and limestone (hasher) are abundant in the south west of the District. In the Tanjore taluh yellow other is found, and gypsum of poor quality near Nagore. Along the Pudukkottsi frontier from is met with but it is doubtful whether it could be remuneratively worked.

The chief industries are weaving of various kinds and metal / Formerly Tanjore enjoyed a great reputation for its. miks, but the District has suffered considerably in the decay of the textile industries which has followed the introduction of mineral dyes and the increasing importation of chesp piece goods from Europe The dyers have suffered most, and thus once prosperous craft is now untually extinct the weavers doing their own dyeing or buying ready dyed thread cotton and carpet weaving were once of some note but have declined equally with, if not more than the salk industry Kornad and Ayyampettat, once famous centres of salk and carpet weaving have greatly diminished in activity and importance. On the other hand the wearing of the best embroidered silks such as the gold and silver striped embroidenes and the gold fringed fabrics of I anjore and Kinn bakonam, shows no signs of becoming involved in the general decay

In metal work Tanjore is said to know no rival in the South but Madura. The Madura artisan, however, desotes himself mainly to brass whereas in Tanjore brass, copper, and silver are equally utilized. The subjects represented are usually the detites of the Handu pantheon or conventional floral work. The characteristic work of the District is a varie y in which figures and designs executed in silver or copper are affixed to a foundation of brass. The demand for these wares is almost entirely European. The chief seats of the metal industry are Tanjore, Kumbakonam, and Mannargoch.

Among minor industries the bell metal of Pisanattin and the manufacture of musical instruments and pith models and toys deserve mention. The pith models of the temple at Tanjore are well-known. The pithing presses at Tanjore and Tranquebar employ a large number of hands, and in this respect the District is second only to Madras and is rivalled only by Malabar.

As distinguished from arts, manufactures are few. The South Indian Railway workshops, which for nearly forty vears have been located at Negapatam have contributed much to the prosperity of that now declining town

Tanjore has the advantage from a commercial point of view of being intuited on the coast and of being intersected by numerous nalways. It possesses altogether fifteen ports, of which Negapitam is by far the most important. Tranquebar, Nagore Muttipet Adriampatrium, and Ammapatam are, however, ports of some preterrions. The chief centres of land trade, besides Negapitam, are Tanjore, Kumbakonam, Mityavaram, and Mannargudi. Most of the trade both by land and sea, is in the hands of the Chettis and the Musalman community of the Marakkayans, the latter being very prominent in the coast towns.

The raviways naturally take a large abare in the carriage of articles of internal and general inland trade, and the local distribution of commodities is effected by weekly markets managed either by private agency or by the local boards. The chief articles of inland export are rice betel leaves, ground nuts oil, metal vessels and cloths. The ground nuts are sent to Pondicherry for export to Europe by sea but the other commodities go by rich to all parts of Southern India. The inland imports are mainly salt from Tuticorin, gingelly and cotton seed from Mysore and Timevelly kerosene oil from Madras, tamanand and timber from the West Coast, and glu, chillies, pulses, and lamp-oil from the neighbouring Districts.

The total exports by sea in 1903-4 were valued at 117 lakhs. Of this Ceylon took nice to the value of 64 lakhs, and half a lalki's worth or coco-mus. Most of this trade was conducted from Negapatam Bendes rice, the principal exports from that port were cotton piece goods, live stock, rds, cagers, tobacco, and skins. Large quantities of all these articles are the produce of other Districts and are only brought through Tanjore for shipment. The imports in the same year amounted to 54 lakks. At Negapatam the most important of these were arecainut, timber, and cotton picce goods while Adminipatriam and Multimet received a fair quantity of gunny bags and areca nut The trade of Negapatam is mostly with Ceylon, the Straits Settlements, and Burms, but it deals to a small extent with the Unsted Kingdom and Spain. The other ports either subsert on traffic with Ceylon or confine themselves to coasting trade The Dutrict is not at present as important a centre of maritime commerce as formerly, for the development of the port of Futucorus has deprived it of much of its commerce, and the opening of the railway to the north eastern Districts of the Prendency has resulted to the carriage by land of many classes of goods which were formerly imported by sea at Negaputam

Tanjore is unusually well supplied with railways, all of them R on the metre gauge. The South Indian Rudway, the direct at route between Madras and Tutironin, traverses the District from north to west, passing through the towns of Mayawaram Kumbakonam, and Tanjore An older line connects I anjoie with Negapatam, and this has recently been extended to the neighbouring port of Nagore A railway branches off from Mayayaram and runs southward as far as Arantings, a total distance of 99 miles. This was constructed jointly by the District board and the Government as far as Muttupet and was owned by them in common till 1900 when the board accounted the exclusive ownership by purchase and commenced the further extension to Amantangi. The funds for its original construction and for the extension now in progress were raised by the levy of a cess of three pies in the ruper of the assess ment on land in occupation, in addition to the cess of nine pies in the rupee collected for local purposes under the Local Boards Act. The undertaking was the first of its kind in India. and has proved such a financial success the profits earned in 1902 3 being 42 per cent on the capital outlay, that other Divtrict boards are following the example and levsing a cess for similar purposes, and the Tanjore board itself is contempating the extension of its system. The French port of Kunkul has been linked with Peralam on the District board railway, and a short branch from Fanjore to the Pillary irpatti laterite quarry, 5 miles in length, is used for bringing road metal to the main line

The total length of metalled roads in the District is 206 miles and of immetalled 1,531. Of these 1,407 miles are lined with avenues of trees. With the exception of 182 miles of the trimetalled tracks, the whole of them are maintained from Local funds. The proportion of metalled to unmetalled roads is very low, owing to the extreme scarcity among the alluvial deposits, of which so much of the District consists, of any kind of stone suitable for road making. The roads are often interrupted by the many rivers and channels which intersect the delta, and numerous budges have accordingly been erected. That across the Grand Anicut, built in 1839, and consisting of thirty arches of a span of 32 feet each, is the most considerable of these.

More than half of the District is protected from famine by i the arrigation system already referred to. The devastations of Haidar Ah in 1781 caused perhaps the only real scarnity of food it has ever known. In the great famine of 1877, while m other Districts people were dying by thousands of want which no human power could allevate, not only was the rollef required in Tanjore magnificant in amount, but the high prices of gram which prevailed brought exceptional prosperty to the owners of the unfailing lands of the delta. The crops, it is true were lost in the Pattukkottai taiks and the uplands, but the inhabitants of these tracts found work in the fields of the neighbouring delta. This south-east corner of the District is poorly protected but the presumity of the irrigated hand in the delta prevents the people from over suffering senously

The District is divided into six administrative subdivisions. Of the officers in charge of them, two or three are members of the Indian Civil Service the others being Deputy Collectors recruited in India. The three subdivisions of Tanjore, Kumbalonum, and Pattulkottai consist only of the single takek after which each is named, the Negapatam subdivision includethe lighth of that name and also Nanmiam the Mannärgudi subdivision is made up of Mannargudi and Turutturappundi talkar and the Milyavaram subdivision of that talka and Shouth At the head quarter, of each total there is a takuldar and a stationary sub-magistrate, and deputy takelidas with magnitural powers are posted in every aidul except Shryali The imperior staff of the District varies slightly from the normal. Owing to the amount of work caused by the claborate arrigation system, two Executive Engineers are necessary, one at Tanjore and the other at Negapation. A Civil Surgeon rendes at Negapatam (where there is a considerable European population), in addition to the District Medical and Sanitary officer, but the forcets of langues are of such small extent that for forest purposes the Dustret is attached to Inchinopoly

Cavil justice is administered by a Datrict Judge three Sub-Judges, and eleven District Mannis. The people of Langure, like those of other wealthy areas in the Presidency, are extremely hitgories and the work of the courts in heavy. In addition to suits of the usual classes, cases under the Tenancy Act VIII of 1565 are very frequent, especially in Kumba koman. They are mostly due to the system of absentee landlordism and sub-tenancies which has grown up round the systemics tenare in this wealthy District. Senious crime is less common in Tanjore than in any other District in the Presidency, and ordinary these constitute more than 55 per cent. of the total number of cases.

From the earliest times, as far as can be ascertained, the L morars system, which is in some essentials similar to the " restrairs tenure, obtained in Tanjore District as a whole a probably as old as the Chola dynasty, but it can only be proved to date back to Maräthä times. The system appears to have been based on a theory of joint communal ownership by the villagers proper (the aurasidars) of all the village land, and in former times often involved the joint management of the common lands or their distribution at stated intervals among the villagers for cultivation. But in spite of this communistic colouring the system always involved a scale of individual rights to specific shares in the net fruits (however secured) of the general property, and herein lay all the essential elements of private ownership of land. It was only a matter of detail to be settled in the village whether a villager's share was described in terms of crops or lands, and it seems to have come about gradually that lands were everywhere assigned permanently as the share and private property of the miraudar Such a system was equally well adapted for the taxation of the villagers in a body or of each individual ryot

Under the early Margina rulers the productive capacity of all the 'wet' lands in each village was assessed in the gross at a certain quantity of grain or grain standard, which was divided between the state and the cultivator at certain rates of division (versus), the state share being converted into money at a commutation price fixed each year. The 'dry' lands were assessed at fixed rates, or had to pay the value of a fixed share of the actual harvest each year according to the nature of the crop grown. The revenue history of the District has largely consisted of variations in the grain standard of the 'wet' lands and modifications in the rates of division and commutation price. The ryots had gradually succeeded in reducing their payments considerably before the short period of Muham maden rule (1773-6), but the iron hand of Muhammad All succeeded in exacting a larger land revenue than has, as far as we know, ever been obtained before or since. He altered the system by demanding a specified share, not of the estimated produce or gram standard, but of the actual barvest restored Marathas tried to retain this system, but were compelled by popular resistance to return to the old gram standard. From 1781 to the cession to the English a new pathan system was introduced by leasing the resenue of one or more villages to farmers (*#Andriers), with the object of encouraging cultivation after the desolating effects of Hardar Alr's invasion.

This was for a time successful in its object, but quickly became a source of abuse, and was abolished as soon as the British obtained the country. The latter began by reviving Muham mad Aha system (1800-4), in order to gather information about the real productive power of the land, and then levied money tents imposed in gross on the 'wet' hards of the whole village on leases of varying lengths till 1822-3. In that year the productive value of the 'wet' lands in each village way e'aborately recalculated and a money assessment was thereby fixed on each village which was to vary with considerable variations in the price of grain. This was called the obsage settlement, and it was extended to nearly the whole of the District some villages being permitted to pay a grain rent on the old Maritha system and some to pay the value of a share of the actual harvest. It was followed in 1828-30 by the wottamfassal settlement, which was accompanied by a survey and was intended to revemble the scientific motivary vettle ments of other Districts. In effect, however, it consusted only m a modification of the change assessments together with a rule that whatever changes there might be in the price of gram the new assessments were not to vary. The assessments were also distributed in a few villages among the actual fields. This settlement was at first applied only to a part of the District. the rest remaining under the always but it was extended to all but a few villages of exceptional character in 1859. shings roots were at that time at a great disadvantage owing to the high prices, and gladly acquiesced in the change. Patter (title deeds) to individual roots were first given in 1864 and from that date the revenue system of the District bardly differed in principle from that found elsewhere. Meanwhile varying policies had been adopted in the administration of the has important 'dry lands, but both 'net' and 'dry were brought into line with the rest of the Presidency by the new settlement of 1894. As a preliminary to this settlement a survey commenced in 1883, by which accurate measurements of the fields were first obtained. The survey disclosed that the actual area under cultivation was 5 per cent more than that shown in the accounts, and the settlement enhanced the total revenue by 33 per cent, or about 15% lakes of rupees The present average assessment per acre on dry land is Rs 1-7-8 (maximum, Rs 7, minimum, 4 annes), that on "net" hand in the delta Rs 7 (maximum, Rs 14, minimum, Rs al and m non-deltaic tracts Rs 3-6-11 (maximum Rs 7) mmemors, Rs 3) The revenue from land and the total

revenue	m	recent	усала	are	grven	below,	m	thousands	υf
rupces -	-								

	1 46 0−¢	1890 -1	1 700 -⊀	2928 4
I and revenue Total revenue	49,97	83 TI	7947	68,25
	69,76	76,51	9948	104 92

There are five municipalities in the District namely, Tanjore I city Kumbakonam, Negapatam, Māyavaram, and Mannargudi Beyond municipal limits local affairs are managed by the District board and the six talak boards of Tanjore, Kumba konam, Negapatam, Māyavaram, Mannargudi, and Pattukkottau the charge of each of the latter being conterminous with one of the administrative subdivisions already mentioned. The total expenditure of these boards in 1903-4 was about 15 lakks the principal item being the District board railway and its extension, on which 7 lakks was spent. Apart from the municipalities nineteen groups of villages have been constituted Unions, administered by panadijan under the control and supervision of the talak boards.

The control of the police is vested in the District Superm I tendent at Tanjore, an Assistant Superintendent at Negapatam I being in immediate charge of the five southern talker. The force numbers I 184 constables working in 75 stations under 18 majectors. The reserve police at Tanjore city number 96 men. There are also 2,013 rural police. The District july is at Tanjore city, and 18 subsidiary july have accommodation for 358 prisoners.

According to the Census of 1901, Lanjore District stands I next to Madras city in regard to literacy, 10 I per cent of the population (203 per cent of the males and 09 per cent of the females) being able to read and write. There is not much difference among the various labels in this respect, except that Patinkkottan is far behind the others. The total number of pupils under instruction in 1880-1 was 29,125 un 1890-1, 47,670, un 1900-1, 61,390, and un 1903-4, 70,938 On March 31, 1904, the District contained 1,182 primary schools, 78 secondary and 7 special schools, bouldes 3 training schools for masters and 3 Arts colleges. The guls in these numbered 8,09s. There were, besides, 585 private schools, 52 of these being classed as advanced, with 13,334 pupils, of whom 1,30s were girls. Of the 1,273 metitations classed as public, it were managed by the Educational department, 153 by local boards, and 27 by municipalmes,

while 500 were aided from public funds, and 486 were unaided but conformed to the rules of the department. The large majority of pupils are in jumpary classes, but the number who have advanced beyond that stage is unusually large, the District in this respect, as in education generally, being in advance of all others except Madras city. Of the male population of school going age as per cent were in the primary stage of instruction, and of the female population of the same age 4 per cent. Among Musalanins (including those at Koran achools), the corresponding percentages were 99 and There are 158 special schools for Panchamas in the District, with 4,114 Panichama pupils of both sexes. The Arts Colleges are the Government College at KUMBALONAM. St. Peter's College at TANJORE, and the Lindley College at Manuargum The total expenditure on education in 1903-4. was Rs 5,22,000, of which Rs 2,52,000 was derived from fees. Of the total, Rs 2,43,000 (47 per cent) was devoted to primary education

Stateen hospitals and 22 dispensaries, with accommodation for 398 in patients, are maintained by the local hoards and numeripalities. A medical training school is attached to the hospital at langue. In 1903 the number of cases treated was 411,000, of which 5,200 were in patients, and 17,000 operations were performed. The expenditure was Rs 87,000, the greater part of which was met from Local and numerical funds.

In 1903-4 the number of persons successfully vaccinated was 34 per thousand of the population. Vaccination is not compulsory except in the five municipalities.

[F. R. Hemmgway, District Geneticer, 1906]

Milyavaram Subdivision — Subdivision of Tanjore Dismet, Madris, consisting of the Miliate of Manavaran and Servaci

Mayavaram Taluk —Coast tiluk in the north east of Fanjore District, Madras, lying between 10° 58 and 11° 15' N and 79° 31' and 79° 52' E, with an area of 283 square miles. The population in 1901 was 247,019, compared with 244,835 in 1891. In density it stands sixth of all the tilluke in the Presidency, this being due to its great agricultural advantages. It is attracted wholly in the delta of the Cauvary river, and more than 99 per cent of the arable land is under occupation. Moreover, as it lies near the sea it receives as much as from 50 to 53 inches of ram. Most of the land is impated, and on this rice is usually grown, though ground nuts and ginzelly

are also raised in fair quantities. Mayavanam town, which is the head quarters of the tabuk, is a municipality with a population of 24,276. The old Danish settlement of Tranquesar, which her 18 miles south-east and is now a declining port, has a population (inclusive of its suburb Possiyar) of 13,142. Besides these two towns, there are 186 villages in the tabuk I he demand for land revenue and cesses amounted in 1903 4 to Rs 8,88,000.

Shiyali Tahik -- North custern tahuk of Tanjore Duanct, Madras lying between 11° 8 and 11° 25 N and 79° 39 and 70° 52 E, with an area of 171 square miles. Its boundaries are the Coleroon, the sea, and the Milyavaram tahuk Including the bead quarters, Shivalli (population, 9,722), the villages number only 97 The population fell from 119,803 m 1801 to 116,563 m 1901, and includes unusually few Muham madans or Christians The demand for land revenue and ceases amounted in 1903-4 to Rs 4,06,000. Being intuited in the delta of the Canvery river, Shiyah contains much more 'wet' land than 'dry', but this is generally not of the best kind, because the arrantion charmels have deposited most of their fertilizing salt before they reach land which extends so far towards the sea. The Colemon channels from the Lower Amout give a better deposit, and some of these run through the tabel. Its position on the coast results in its receiving the large ramfall of 54 mobes, and agriculturally it is prosperous on the whole, though nearly so per cent of the cultivable area. n unoccupied

Kumbakonam Taluk - Inland taluk and subdivision of Tanjore District, Madras, lying on its northern border between 10° 47 and 11° 11 N and 79° 7 and 79° 34 E, with an area of 34s square miles. The population fell from 377,523. in 1891 to 375,031 m 1901, but it is still the most densely peopled taken in the District or (with three exceptions) in the Presidency, supporting 1,097 persons per square mile. The most important town is Kunbaronan (population, 50,673), the head quarters, and 6 miles east of this is TIRUYAD's MARODOR (11,237), famous for its temple. The number of villages is 307. The demand for land revenue and cesses amounted in 1903-4 to Rs 13,17,000. Being intrated in the most fertile part of the Cauvany delta, the greater part of its soil is alluvial and the rest black soil, and it is an exceptionally rich area. It shares with Namulam the characteristic of possessing far more large landholders than any of the other talaks in Tanjore, and the rent of the average holding is unusually high. About 47 per cent of the 'wet fields are assessed at Rs 9 or over per acre, and 96 per cent of the 'dry' fields at Rs 2 or more. The chief agricultural products are nice, plantains and betel leaves, which are all largely exported, and the chief industries are the brass and bell metal work and the all, and cotton weaving of Kumba konam town

Negapatam Subdivision —Subdivision of Tamore District Madras, consisting of the NEGAPATAM and NANHELAM *tabula*s

Negapatam Taluk -- Coast taluk of Tanyore Dutrict, Ma draw hang between 10° 32 and 10° 50 % and 79° 34 and 79 51 C, with an area of 240 square miles. The population tell from 220,165 m 1891 to 217,607 m 1901 but the talkk still stands second in the District and fifth in the Presidency in regard to density, which is 907 persons per square mile. The taluk contains proportionately more educated people than amother in the District and it owes this characteristic and its general importance to NEGAPATAM town (population, 57,190), the head quarters, which is a large municipality and seaport The only other considerable town is Tire value (15 436) noted for its temple and the idol car belonging thereto. The number of villages is 180. The demand for land revenue and cesses amounted in 1903-4 to Rs 5,75,000. Although it her within the CAUVERY delta, the south easternmost portions are beyond the arrigation system which depends upon that river contains no alluvial soil and the land is not of a very high class

Mannilam Talak -- Lastern takeh of Fansore District, Madras, lying between 10° 44 and 11° 1 N and 70° 27 and 70° 51 L, with an area of 293 square mike. The population was 214,788 in 1901, compared with 216,118 in 1891 MILAN town, the head quarters, has a population (1901) of 6,727, and Kubayasal, a deputy takuldar's station 5,419 The number of villages is 242. The demand for land revenue and cessus amounted in 1903 4 to Rs 11,33,000 The talks is situated entirely within the rich delta of the CAUNARY river and is a singularly prosperous tract. The had revenue averages as much as Rs 4 13-3 per head, and is the highest in any tales in the District, while the average holding pays an assessment of Rs 35, or more than in any other but Shiyah, and there are more large landowners than in any other table. The ramfall is good (44 to 46 inches annually), more than half the soil is allustal, and by far the larger portion of the land is migated.

Tanjore Taltak --- Western takek and subdivision of Tanjore District, Madras, lying between 10° 26 and 10° 55 N and 78° 47 and 79° 22 E, with an area of 689 square miles The population in 1901 was 407,039, compared with 410,447 in 1801 There are 362 villages and four considerable towns LANJORE (population, 57,870), the head quarters of both the talks and the District, the mered town of Tirety and (7.821) Vallax, where the Collector resides (7,590), and AYYAMPET 141 (0,454), famous for its carpets and mats. The demand for land revenue and cesses amounted in 1903 4 to Rs 10 16 000 The table differs from others in the District in the large number of the thief caste Kallans it contains. It is divisible into two well marked sections, the first including much of the apex of the CAUVERY delta, and the second running up in the south and west to dry uplands resembling those of the Pattukkottas tubuk These two tracts are sharply contrasted and the talkik contains some of the best land in the Durtnet and also large tracts of the worst. There is more 'dry land than impated, and 47 per cent of the former is assessed at R x an acre or less. Rice is more widely grown even here than any other crop , but a large area is under asmin, rage, ground nuts, and red gram, the last of which is an unusual gram in this District

Mannargudi Subdivision —Subdivision of Tanjore District, Madres, consisting of the talker of MANNARGUDI and Preuri or Allendo

Mannargudi Taltik — Central tabul of Tanjore District, Madra, lying between 10° 26 and 10° 48' N and 79° 19 and 79° 38 E, with an area of 301 square miles. The population in 1901 was 188,107, and this has remained practically stationary since 1891, when it was 188,112. It contains 193 villages, besides the municipal town of Mannargudi (population, 20,449), the head quinters. The demand for land revenue and cesses in 1903—4 amounted to Rs 6,28,000. The south western part of the talkit is unimigated, while the remainder has within the Calvary delta, though it contains no alluvial soil.

Thruttural pounds Talink — Coast talak in the south east of I anjore District, Madras, lying between 10° 16 and 10° 40 N and 79° 28 and 79° 52 k, with an area of 485 aquare miles. The population in 1901 was 182,981, compared with 179,485 in 1891. The talak contains 143 villages besides three towns. Thruttural PPU and (population, 5,400), the head quarters, VI DARAHAIYAM (14,138), at the north castern end of the great salt swamp of that name, containing a large salt

factory It is connected with Negapatam by the Vedaran myam Canal About 10 miles south of it is Pott Calmers. Mutter fat (population, 9,099), to the south west on the Korayar over, has all the advantages of a port, although it stands about 6½ miles from the mouth of the over. The demand for land revenue and cesses amounted in 1903-4 to Rs 5,09,000 Part of the table is in the Cauvers delta, but it contains no alluvial soil and the land is generally of an inferior kind. Half of the 'dri fields are assessed at Rs 1 4 0 an acre or less, and the table is a poor tract compared with most of the others in this District. Education is also backward and the population is sparse. Tobacco and coco mits are largely grown, and the latter, and also take, are exported in considerable quantities.

Pattukkotta: Talnk - Southern taket and subdivision of Tamore District Madras, bordering on Palk Smut, and lying between 9°49 and 10°35 N and 78°55 and 79 32 E, with an area of 906 square miles. The population in 1901 was 295 804, compared with 271,626 to 1891 showing an increase in the decade of early 9 per cent, due to the influx of labourers for the extension of the Dutrict board rathus, recently under construction Pattureoffat Town, the head quarters, bas a population of 7,504, and ADIR LEPATHAM, a small port, 10 494 The number of villages 18 792 The demand for land revenue and cesses in 1903-4 amounted to Rs 2,07,000 In several ways it forms a striking contrast to the other tabular of the Dustrict, rance practically no part of it is within reach of the CAUVERY The greater portion is 'dry' land, the small wet' area within it being watered by tanks and wells, and the soil is nearly all of a red ferrugmous variety which forms arable land of infenor quality. Four fifths of the total area 14 either semindars or man, a further point of contrast to the rest of the District, but in the remainder the percentage of unoccupied land is higher, and the incidence of the assessment per head and the rent of the average holding are lower, than m any other takek Pattukkottas is the most backward tract in Fanjore in point of education, and, though the largest of the Advets, as the least densely peopled

Advisopatness.—Town and port in the Pattukkottsi tälisk of Tanjore District, Madras, situated in 10° 20 N and 79° 23 D, with a station on the District board rulway. It is called after Advira Rämen, the Pandya king (1562–1610) Population (1901), 10,494. It is the immost and most protected point in the bay formed by the southern seaboard of the Triutium appearsh talish and the castern scaboard of Pattuk.

kottar. A bresk trade is carried on with Ceylon, nee and coco-nuts are the principal exports, and gurny bags, areca not grain and treasure the chief imports. The Musalman tribe of Labbais, who are active traders, are a numerous community in the place. There is a salt factory here, and also an old Siva temple containing inscriptions.

Assumapatam.—Port in the Pattukkottsu takek of Tanyore District, Madras, intuited in 10° 1 N and 79° 15 E. Population (1901), 3,915. Its trade is principally with Ceylon, and nee and hive stock are the chief exports the largest import being unhusked rice. Cookes for the Ceylon test plantations travel regularly from here twice a week.

Arantangs. - Head quarters of a deputy takeslider and terminus of the District board railway, in the Pattukkotai taksa of l'amore Dutrict, Madras situated in 10° tr N and 70° o E Population (1901), 2,936 Laterate is found in large quantities in the neighbourhood and is much used for housebuilding Lace and silk cloths are made here, and fabrics are dyed and exported to Rangoon and elsewhere. Arantanga played a conspecuous part m the early history of the District. It was taken in the fifteenth century from the ruler of Tanyore by the chief of RAMMAD who was a general of the Pandya monarch, and was annexed to the dominions of the latter. In the seventeenth century it once more belonged to Tanjore but about 1646 was again wrested from that State by the Ramined chief Raghimetha. Levan Restored by treaty, it was again captured when war broke out afresh in 1608 and early in the eightoenth century was governed by the son of the Rammad tuler. The fortress subsequently changed hands many times, the Tanjore Raja finally occupying it in 1749. There are ancient inscriptions in the Siva temple and made the fort.

Ayyampettai.—Town in the states and District of Tanjore, Madras, estimated in 10° 54 N and 79° 12 L, 11 miles north east of I anjore city, with a station on the main line of the South Indian Railway Population (1901) 9,454. It is one of the chief seats of weaving in the District. Silk cloths, carpets of cotton wool and alk, and mats made of rushes are largely manufactured, and block printing of chintses is carried on to a small extent. There is a particular variety of cloth called histories for which Ayyampetias is famous. The number of weavers is, however, very small now as compared with former days.

Calimera, Point (the Calimera of Ptolomy) -A low promontory in the Tarottmanpounds taken of lamore District,

Madras, situated in 10° 18' N and 79° 51' E, 40 miles from Point Pedro in Ceylon. A lighthouse was erected on it in 1902. Inland stretches a 'reserved' forest extending over 6½ square miles, where antelope, spotted deer, and wild hog are to be met with. Ponies are bred in the neighbourhood in small numbers, and tobacco is largely grown. To bathe in the sea at Point Calimere is considered stored by the Hundus, and the place has a temple which is an object of pilgrimage. The promontory was once used as a vanitarium, but it is now said to be feverish from April to Jane.

Coleroon (Kelliders)-Northern arm of the CAUVERS, which branches off from the main stream about a miles west of I richinopoly For 17 miles it runs parallel to the Canvery and then turns towards and very nearly reunites with it island thus formed is called the island of Srikangam, and hein Inchinopoly District. At the lower end of the island the Coleroon takes a north easterly course, akurts the District of Taniore on the north, and falls into the sea near Devikottan. The waters of the Coleroon are largely utilized for irrigation Across the head, where it branches from the Cauvery, stands the Upper Amerit a dam constructed between 1826 and 1838 to present the Coleroon, which runs in a lower bed than the Cauvery, from abstracting too much of the water, and 90 mining the imagation in Tanjore dependent on the main stream. The Grand Ament, built by the Choks lungs, a few miles lower down at the point where the Canvery and Coleroon nearly meet again, serves a number purpose. The object of these works is noticed at greater length in the article on the CAUVERY. About 70 miles below the Upper Amout, the Lower Amout again dams up the Coleroon, for the purpose of providing irrigation in South Arcot District and a portion of Tanjore The trunk road from Kumbakonam to Madras passes over this dam. The Vadayār and North Rājā channels lead from it into South Arcot, while the South Raja channel turns into Tanjore The Lower Anicut system in 1903-4 magated_134 square miles in South Arcot, yielding a revenue of more than 4 lakhs, and 37 square miles in Tanjore, the revenue from which was nearly another lakh. The South Indian Railway crosses the river about to miles above its mouth by a garder bridge. A few yards higher up, a masonry bridge until recently carried one of the main roads. Half of the piers fell during the floods of November, 1903, and at present a ferry is supplying its place. The Colemon is navegable by hight craft for a few miles from its mouth, and

is used to a small extent for the export of rice. It is altogether 94 miles in length, and drains an area estimated at 1,404 square miles.

Devikottal (Drow, 'mland,' and kotter, 'fort') -A rumed fort at the mouth of the Coleroon river in the Shyali talue of Tanjore Dutrict, Madras, intuated in 11° 22 N and 70° 48 E It was captured by the East Indua Company in 1749 from Praisip Singh, the Raja of Tanjore, after two hazardons emeditions from Fort St. David, undertaken at the instance of Sayan, a deposed Rays, and was thus the first Brush possession in India obtained by conquest. The first expedition, under Captain Cope, proved unsuccessful owing to various mischances. On the second occasion a larger force under Major Stringer Lawrence effected the capture of the place. In the course of the siege Clive, then a lieutenant, had a narrow escape while leading the attack on the breach The fort was a mile in circumference, with walls 18 feet high No factory was established at the spot, and the fort was eventually abandoned on the approach of the French in 1758 The French in turn execuated it after Lyre Coote's victory at Wandwash, and it was reminisoned by British troops in 1760 It has been almost completely destroyed by the floods of the Coleroon

Kudavasal (Kudam 'pot, and vātal, 'entrance) — Town in the Nanmlam takik of Tanjore District, Vadras, intested in 10° 52 N and 79° 20' E. Population (1901), 5,419. It is a deputy takuldar's station. Silk cloths for women are woven here. Kudavasal and Kumbakonam are supposed to have a legendary connexion, both names being said to be derived from the Tamil word for a pot. It is declared that the mouth of a pot of nectar carried by Garuda, the celestial late who is the vehicle of the god Vuhnu, fell at Kudavasal and another portion at Kumbakonam

Kumbakonam Town (Sanskrit kumbka, 'water pot,' and ghona, 'nose', old Tamil kudandar)—Head quarters of the taluk of the same name in Tanjore District, Madras, situated in 10° 58' N and 79° 22° E, on the banks of the Cauvery, with a station on the main line of the South Indian Railway, 194 miles from Madras. The population in 1871 was 44 444, in 1881, 50,098, in 1891, 54,307, and in 1901, 59,673. It has thus been steadily increasing in use, and is now the sixth largest town in the Presidency. The total in 1901 included 2,183 Musalmana, 1,272 Christiana, and 87 Jams, the remainder being Hindus.

The town is one of the oldest in Southern India been identified with the Malaikutram which became the capital of the Chola dynasty about the seventh century. It has always remained a stronghold of Brahmanism and Brahmani cal culture. A math (religious house), founded by the great Sankarāchārya, contains a valuable library of Sanakrit manu Many of its shrines bear old macriptions Nageswara temple is so constructed that on three days in the year the sun a rava penetrate through the openings in the goptorase (tower) and fall on the idol, which is interpreted as an act of worship by the sun. The Sarangapani temple has a propagam richly ornamented with figures a well painted ceiling, and two large and elaborate festival cars of curved wood. One of the shinnes in the town is dedicated to Brahma, a deity who has very few temples in his honour. The Mahamagham festival once in twelve years attracts an immense concourse of visitors from all parts of India. It is the popular behal that on this occasion the Mahamagham tank receives a direct supply of water from the Ganges by underground ways. The last festival of this kind took place in 1897.

In 1854 a provincial English school was started in Kumbi-konam by Government. It was made a second grade college in 1864 advanced classes being added three years later and it was affiliated to the Madras University in 1877, the high school classes being abolished in 1881. The college has long main tained a high reputation for efficiency, but there is a growing tendency on the part of students to prefer the colleges at Madras. The average attendance in 1904 was 175. There are two English high schools, a Sanakut high school, and a Vedic school maintained by private agency, besides a technical institute.

The chief manufactures are brass, bronze, copper, and lead vessels, alk and cotton cloths, sugar, indigo, and potters. The metal work is the best known of these. The ulk industry though said to be declining, is still considerable, employing as many as a cool looms. Cotton weaving has fallen into many an accordance of late years. The productions of the town are exported to other districts by rail, and the place is also a centre for the collection and export of the locally grown nee, ground nuts, and calseeds.

A District Court was held at Kumbakonam from 1806 to 1863, and a Sub-Judge and a diversoral officer are now stationed there. It is also the head quarters of a Roman Cathobe bishop of the French masson.

Kumbakonam was made a mumerpality m 1866 receipts and expenditure during the ten years ending 1002-1 averaged Rs 85,000 and Rs 92,000 respectively penditure includes part of a loan and grant from Government, amounting to about a lakh, which was utilized in constructing drams in some of the streets. A further sum of Rs 25,000 has recently been allotted for the same purpose for supplying the town with water at an estimated cost of Rs. 4,05,000 has been approved by the Samtary Board, but has been found to be beyond the resources of the municipality In 1903 4 the income was Rs of 400, including house and land taxes (Rs 36,000), tolks (Rs 16,700), animal and vehicle tax (Rs 7,800), and scavenging and other fees (Rs 7,000), while the chief items of expenditure were conservancy (Rs 28,000), hospitals and dispensaries (Rs 8,000), roads and brildings (Rs 15,000) and education (Rs 8,000), out of a total of Rs 81,500 The municipal hospital contains seventy two beds

Mannargudi Town (also called Manuarkoul or Raya Manuarkout) - Head quarters of the takek of the same name in Tanjore District, Madras, intuated in 10° 40 N and 79° 27 E, on the bank of the Pamaniyar river, 9 miles south of the railway station of Nidamangalam. The population in 1901 WAS 20 449, of whom 651 were Musalmans, 540 Chris. tians, and 153 Jams, all the rest being Hindus. This is one of the centres of the Wesleyan massion, which maintains a second grade college, called the Findia, College, affiliated to the Madran University in 1898. The average attendance in the advanced classes during 1903-4 was 58 and in the lower chasses 533 In addition, a high school is maintained by private agency Mannargudi was constituted a municipality in 1866. The receipts and expenditure during the ten years. ending 1902 3 averaged Re 27,000, and in 1903 4 amounted to Rs 20,000. The chief sources of meame are tolks and house and land taxes. A channel from the Vadavir, about 12 miles long, supplies twenty two tanks in the town with good water Mannargudi is noted for the manufacture of metal ware and cloths, and exports noe in large quantities. Of the many tem ples in the town, the most important is that to Rajegopalle. swim, which was founded by Kulottunga Chola I in the eleventh century. Two other shrines bear Chok names and mecraptions of Chola, Pindya, and Hoysala kings Mannargudi reself was formerly called Rayadhiraya Chaturvechmangalam, obviously a name of Chola origin. An old Jam temple stands in the town, and a mile to the west is a rumed fort said to have been built by a Hoysale king

Milyavaram Town (Majaram) - Head quarters of the stable of the same name and the station of a Deputy Collector Tanjore District Madras, situated in 11° 6 N and 79° 39 E on the banks of the Canvers, and at the amotion of the South Indian Railway mam line with the District board railway Population (1901) 24,876 The town is held particularly sacred by Hindus During the Tula Cauvery festival (October and November) pilgrims gather from all parts of the Presidence. to bathe in the holy river simultaneously with the idol of the local shrine. A large Vishnu temple stands on the northern bank of the Cauvery in Tiruvilandur. The principal shrine dedicated to Mayuranathaswami, is a mile to the south of the river. Here Parvatt is said to have worshipped Siva in the form of a peacock (majura), and the name of the town is supposed to have been derived from this incident. Kornad a suburb of Mavavaram has long been famous as a weaving centre. The cloths woven here are worn by women of the higher classes throughout India. They are made of a mix ture of silk and cotton thread, and are dyed in durable dark blue red, and other colours. The industry is not prosperons owing to the mability of the vegetable dyes used to bold their own against imported mineral dies, and with its decline Mayavaram is tending to become a mure market for agricultural produce. The town was constituted a munici-The receipts and expenditure quring the ten pality in 1866 years ending 1902-3 averaged Rs 39 000 In 1903-4 the in come, most of which was derived from school files and house and land taxes was Rs 43,200, and the expenditure was Rs 42,300 The municipal high school is a flourishing matrix tion, and the fees derived from it now amount to more than a third of the total income of the municipality. Senitation is hindered by the fact that the place has low and has no proper dramage

Muttupet — Town in the Turutturaippunds taket of Tanjore District Madras, utuated in 10° 24 N and 79° 30 E, with a station on the District board railway. Population (1901), 9 099. It is about 6½ miles from the sea, but communicates with it by the navigable river koranyir, a branch of the Cauvery. Possessing the advantage of a protected bay where native craft can moor during bad weather, the town carries on an active trade with Ceylon all the year round, the chief caport being rice.

Mannilam Town.—Head-quarters of the töbul of the same name in Tanjore District, Madras, situated in 10° 53' N and 79° 36' E. Population (1901), 6,717. Weaving is practised on a small scale. This station of this name on the District board inclinary is about 3 miles from the town. There is an old temple dedicated to Madhuvaneswaraswam, or "the lord of the honey forest," and it is pointed out as currous that the wild bees still make their nests in this

Regardate Town (Ptolemy's Nigones and Rashed-ad-din's Mainfatters).—Head quarters of the talks of the same name and seaport in Tanjore District, Madras, situated in 10° 40' N and 70° 51' E, 212 miles from Madras by the South Indian Railway and its branch the District board line. The population un 1871 was 48,525, m. 1881, 53,855, m. 1891, 59,221, and m. 1901, 57,190. It now marks as the ninth largest town in the Presidency In 1901 Hindus formed nearly 68 per cent of the population, Mussimins 22 per cent, and Christians 10 per cent Nagore, which stands to the north within the municipal limits, is a stronghold of the Marakkayan traders, a mixed class of Muhammadans Negapatam was in very ancient times the chief city of the httle-known Naga people, from whom its name (Nagepationess) is apparently derived Later it be came one of the earliest settlements of the Portuguese on the east coast, and was called by them the city of Choramandel It was also one of the earliest centres of the Portuguese Christian missions. It was captured by the Dutch in 1660, and was the chief of their Indian possessions till 1781. Meanwhile Nagore had been sold to the Dutch by the Rail of Tanjore in 1773, but was soon afterwards wrested from them by the Nawah of the Camatac with the aid of the English. was afterwards restored to the Raja, who made a grant of it to the Company in 1776 During the war of 1780-1 Haidar Alt of Mysore ceded the place to the Dutch, with the result that an expedition from Madras under Sir Hector Munro captured both Nagore and Negaputam in November, 1781. When in 1799 the Tunjore kingdom came into British hands by treaty, Negapatam was made the District head quarters and remained so until 1844 A divisional officer, an Executive Engineer, a Sub-Judge, an Assistant Commissioner of Separate Revenue, an Assistant Superintendent of police, and a Port officer are still stationed here. There are also a branch of the Bank of Madras and an agent for emigration to the Straits Settlements The South Indian Rankay has extensive workshops in the town, and two companies of their Volunteer Corps have their

head quarters here. The place contains three high schools for boys, two of them being maintained by musicosary bodies Nagore possesses two Arabic schools, and there is another at Negapatam. Of the many temples only one is ancient is dedicated to kilyarohanaswimi, and is called kilronim and occasionally Cholakulavallipattinem in the inscriptions of Rajaraja and other Chola kings. A stone tablet at a small temple records in Dutch that this pagoda was built in A D 1777 under the auspices of the Governor Reviner van Vhasingen. The Nagore dergal, whose white minurets (one of them go feet high) are one of the best known landmarks along the coast, was built over the tomb of the sount Mrstn Sahib Makhan. The m scriptions on the tomb relate that it was built in eleven days by Pratrip Singh of Tanjore in Hippa 1171 (A.D. 1757) The Kandin festival, one of the greatest Muhammadan festivals in Southern Indu, is celebrated here on the anniversary of the sunt a death

Negapatam and Nagore were incorporated as a single municipality in 1866. The receipts and expenditure during the ten years ending 1903-3 averaged Rs 77,000 and Rs 78,000 respectively. In 1903-4 the income was Rs 76,000, the principal receipts being the house and land taxes (Rs 27,000) the profession tax (Rs 9,500) tolls (Rs 8,000), and scavenging and other fees (Rs 8,000). The total expenditure of Rs 75,000 included conservancy (Rs 29,000), hospitals and dispensaries (Rs 7,000), and roads and binkings (Rs 10,500). The municipal hospital, originally built by private subscriptions, contains forty six beds. Schemes for draining and water supply have been framed at an estimated cost of Rs 4,13,000 and Rs 8,32,000 respectively. The latter project has had to be dropped for want of funds.

Until 1845 Negapatam was the chief port south of Madrias thereafter its trade declined for some time owing to the superior advantages of Tranquishar, which in that year had become a British possession by purchase from Denmark. But the opening of the South Indian Railway to Negapatam in 1861 restored its trade. A lighthouse 80 feet high, which has recently been fitted with a revolving light, was erected in 1869. In 1876, however, the railway brought Tuticorin into touch with Madrias city, and since then Negapatam has again declined in importance. The opening of the line to Karskill and up the north-eastern coast has still further contributed towards thus result. The trade of Negapatam is now chiefly with Ceylon, Burma, and the Straits Settlements, and also to a very small extent with the United Kingdom and Spain

Excluding coasting trade, the total imports in 1903-4 were valued at 21 5 lakhs, and the total exports at 65 7 lakhs. The chief imports were areca nut (8 3 lakhs), gumny bags, camphor, cotton piece goods, and apparel. Among lesser imports may be mentioned akins, tobacco, miscellaneous provisions, sugar, wrought metals, gums and resma, wood and furniture. The principal exports were rice (22 3 lakhs), cotton piece goods (6 8), live stock, gls, tobacco, cigars, turmeric, and skins. The minor exports were fruits and vegetables, chillies, sugar, and oil-cake. In 1903-4 the coasting trade consisted of imports to the value of 23 6 lakhs and exports to the value of 9 x lakhs. Negsipatism is an important centre of emigration to the Strait's Settlements and Natal

Pattukkottai Town.—Head quarters of the talket of the same name in Tanjore District, Madras, situated in 10° 26' N and 79° 19 E, with a station on the District board railway. Population (1901), 7,504. An inscription in the runed fort relates that this building was erected by Vanaji Panditar in honour of Shāhji Mahārājā in a D 1686-7. In the western part of the town is an elaborately sculptured and ancient Siva temple of considerable size, containing many inscriptions. In 1815 Sarabboji, the Rājā of Tanjore, erected a miniature fort and column, with an inscription in English to commemorate the triumph of the British arms and the down fall of Bonaparte. Brass vessels, mats, and coarse cotton cloths are manufactured.

Shrythi Town (Strgith) —Head quarters of the taket of the same name in Tanjore District, Madras, situated in 11° 14' N and 79° 44' E, with a station on the main line of the South Indian Railway Population (1901), 9,722. It was the britiplace of the famous Tamil poet and saint Tirugnian. Sambandha, who lived in the first half of the seventh century. In the Siva temple there is a shrine deducated to this saint, with a Chola inscription recording a grit. There are two high schools, one maintained by the Leipzig Evangebrai Lutheran Mission and the other by a native gentleman. Shryth is noted for matamade of a kind of Cyperus. Cotton cloths are also noven of an inferior kind.

Tanjore City (Tanjāvār) — Head quarters of the tābus and District of the same name in Madras, situated in 10° 47' N and 79° 8' E, on the main line of the South Indian Railway, 218 miles from Madras and 226 from Tuticonn. The population in 1871 was 52,175, in 1881, 54,745, in 1891, 54,390, and in 1901, 57,870. Tanjore now ranks as

the eighth largest town in the Presidency Righty five per cent of the population are Hindus, there being only 3 600 Musalmana, 4,706 Christians, and 254 Jams Tanjore was successively the capital of the Chole, Naik and Maritha powers It stood a mege by Chanda Sahib and the French in 1740, and by the French under Lally m 1758, and was after wards cuptured by Colonel Joseph Smith in 1773, though it was restored in 1776 to the Maratha Raja. In 1700, when Sarabhon the Rapi of Tanjore, ceded his territory to the British by treats, he retained the town in his own hands lapsed to the British Government in 1855 on the death of his son away without hems. Four surviving queens, bendes other members of the family, still occupy the palace in the centre of the fort. There are two halls in this palace, known as the Marathil and Nail. Darbit Halls, in the latter of which stands a statue of Sarabhou by Chantrey The building also contains an armoury, and a library of 22,000 volumes in several Indian and European languages, principally Sanakrit

Within the great fort, now dismantled, is a smaller erection called the Stranganga fort. It encloses the sacred Stranganga. tank and the famous Bribadiswaraswami temple. The m acriptions on the walls of the latter excribe its construction to the Chola king Rajaraya I in the eleventh century. It is built on a well-defined and stately plan, which was persevered with till its completion, an unusual feature in Dravidian temples. It consuts of two courts, of which the first. originally devoted to minor shrines and residences, was converted into an arrenal by the French in 1772, and has not heen reappropriated to sacred purposes. The temple proper stands in the second courtyard, surmounted by a tower soo feet high. The carvings on this tower are all \aishnayite. but everything in the countyard, as well as the idol itself, is Sawrite. Strangely enough, there is a figure on the northern side of the tower which appears to be that of a European, the popular explanation of which anachronism is that the eleventh century architect foresaw the advent of the British. In front of the temple is a huge monolith representing Siva's built Nandi, and behind it is a shrine dedicated to Subrahmanya, 'as exquisite a piece of decorative architecture as is to be found in the south of India. The great temple contains a very large number of ancient inscriptions of the Chole and other dynasties. Most of these have been decephered, and many have been published in the second volume of Dr Hultzsch's South Indian Inscriptions

Under the native dynasties, Tanjore was considered the home of the fine arts. It still produces skilful artisans. In metal work and in the manufacture of musical instruments the place is perhaps unrivalled in the Presidency, and its silk weaving, lace, embroidery, jewellery, pith work, and artificial garlands have a deservedly high reputation

Tanjore was made the District head quarters in 1860, five years after it came into the hands of the British, and possesses. the usual staff of officials. There is a District juil which will hold \$33 presoners with room in its hospital and observation cells, respectively, for 15 and 19 more. The present town consists of the fort and two suburbs. Karantattangudi in the north, where the Brithman quarter is situated, and Minam buchliveds in the south east where huropeans reside Society for the Propagation of the Gospel, the Methodists the Lutherans and the Roman Catholics all have mission stations here. The first of these is the successor of the musion founded in 1778 by the famous Swartz, who resided chiefly in this town from that date to his death in 1798, and to whose memory a marble monument by Flazman, representing Raja Sarabbous last visit to the dying musionary, stands in the Swartz Church within the fort. Saint Peters College, founded as an English school by Swartz in the eighteenth century, rose to be a second grade college in 1864 and a first grade college ten years later. It was affiliated to the University of Madras in 1880, and has an average attendance of 130 m the college classes and 238 m the lower classes. It has throughout been managed by the Society for the Propagation of the Gospel. There are also an English high school maintained by private agency, a training school for teachers, and a technical institute

Tanjore was constituted a municipality in 1866. The receipts and expenditure during the ten years ending 1902-3 averaged Rs 1,33,000 and Rs 1,34,000 respectively. In 1903-4 the income was Rs 1,03,000, including the house and land taxes (Rs 27,000), the vehicle and animal tax (Rs 7,500) tolls (Rs 17,000), water rate (Rs 19,000), and markets and alonghter houses (Rs 11,500). The main heads of expenditure were water supply (Rs 20,000), conservancy (Rs 21,500), roads and buildings (Rs 10,700), and education (Rs 11,000), out of a total of Rs 96,000. The town is now supplied with water pumped from wells sunk in the bed of the Vennär. The works were opened in 1895 and cost about 3½ lakha. The expenditure on water supply for the succeeding eight years,

inclusive of extensions, averaged Rs 26,600, and the receipts Rs 15,900. A system of dramage for the fort was carried out in 1840 during the Rhja's time, and a scheme for the disposal of the newage on a farm at a cost of Rs 3,34,000 has been investigated, but is in abeyance for want of funds. The principal hospital in the town was founded and endowed by public subscription in 1880 and is under the management of the District board. It contains 144 beds, and has attached to it a medical school the staff of which was recently reorganized and considerably strengthened.

Trutturalppunds Town — Head quarters of the takel of the same name in Tanjore District Madras, utuated in 10° 32 N and 79° 38 E on the Mulliyar river with a station on the District board railway Population (1901), 5,400 There is an old Siva temple, containing a number of inscriptions.

Throwadamarudur (or Madhyaryanam) — Fown in the Kumbakonam takal of Tanjore District, Madras attuated in 1° N and 79° °7 E on the Virasolaniir river with a station on the main line of the South Indian Railway. Population (1901), 11,237. It contains a very old well sculptured. Siva temple, which is of considerable are and has a fine population of tower. In this are a large number of Chola inscriptions and two grants of the Vijavinagar dynasty. The family of Amir Singh, who was deposed from the throne of Tanjore in 1798, resides here. It is the head-quarters of a deputy takuldar.

Tiruvadi.—Town in the tauk and Dutrict of Panjore, Madres, saturated in 10° 53 N and 79° 6 E 6 miles north of langore town Population (1901), 7,821 It was the head quarters of a separate talkk of the same name until 1860 deputy takuldur and a District Munist are now stationed here It is also called I stuven at (in Sanskirt Panchanadam) or "the holy five rivers,' from the fact that the Coleroon, the Causers, the Kodamurutti, the Vettär, and the Vennär all run in nearly parallel courses within a distance of any miles from it. It is for this reason convidered a particularly mored place, and is one of the chief centres of Brithmanism in the District. From the southern bank of the Cauvery its temples give it almost the appearance of a miniature Benares. Of a group of seven shrines locally known as Saptasthalam, that at I mivadi is the principal. During the great annual festival the gods from the other temples are brought to visit the deity in this. The concourse of palgrams on this occasion is exceedingly large. There are many old inscriptions in the temple, more than forty of which have been transcribed by the Government Engraphist.

All but four of these are of Chols origin, two belong to the Vijayanagar, one to the Pändys, and one to the little known Udatyär dynasty. Truvädi contains a Sanskrit high school, under the management of the Tanjore tillik board, with 100 boarders; and also a Vedic school and an English high school, both of which are maintained by native gentlemen

Tirtuvaliar -- Town in the Newspetam taluk of Taniore District, Madras, attnated in 10° 46' N. and 79° 39' E, at the junction of the Tanjors-Negapatam branch of the South Indian Railway with the District board railway **Population** (1901), 15,436 Until 1860 it was the head quarters of a separate tähik At present a deputy takuldar and a District Manual are stationed here. A European firm owns a rice mill in the town, and a flourishing high school is maintained by the tālus board. There is also a nichly endowed temple, which is largely attended by pilgrims during the annual festival in the hot season, the sacred car being the largest in the District The temple is picturesquely intuated on the eastern bank of a large square tank, which has fine flights of stone steps leading down to the water and a small island temple in its centre The thrme of Achaleswara contains macriptions of the Chola sings Rayarast and Rajenda, as well as some records of the later rulers of this dynasty, and of the Pandyas

Tranquebur (vernacular Tarangumpādi, which would mean 'the village of the waves', but Sadangumpādi according to an old inveription) —Town and port in the Māyavaram tahih of Tanjore District, Madras, situated in 11° 2 N and 79° 52 E, 18 miles north of Negapatam. Population (including its suburb Porayār) (1901), 13,142 Tanquebur first rose into importance as a Danish settlement, the Danish East India Company having in 1620 obtained a grant of land from the Rājā of Tanjore and built a fort here. In 1624 it passed to the king of Denmark. In the war of 1780—1 Haidar exacted a fine of Rs 1,40,000 from the Danes for supplying arms to the Nawāb of Arcot. In 1801 Tranquebar was taken by the British in 1845 for 124 lakhs of rupees

In 1706 the first Protestant missionanes, Ziegenbalg and Plutschan, landed at Tranquebar and founded a mission under the auspices of king Froderick IV of Denmark. A church, one of the earliest Protestant places of worship in India, was built in 1718. In the eighteenth century the mission spread its infinence over a great part of the Tamil country, but not long after Swartz left Tranquebar in 176s it began to languish, and by 1820

had practically come to an end. In 1841, however, it was succeeded by the Dresden Society, or, as it was called later, the Lenny Evangeheal Lutheran Musson, which now main tums a training school for teachers, an undustrial school, and a printing press, besides boarding schools for boys and guils There is also an upper secondary school. Tranquebar was a busy port in Danish times. Under English rule it drew away the trade of Negapatam owing to its better anchorage, and continued to flourish until 1861, when the railway restored the trade to Nessanstam. It is now of greatly disnamished importance, and its trade consists chiefly of the export of nee on a small scale. It was the head quarters of the Collector of Tenyore from 1845 to 1860 and of the District Judge from 1860 to 1884, with a short interval. A deputy takuldar is now the chief officer. It is one of the healthest spots in the District and has a quaint beauty of its own. The old criadel, called the Dansborg, for some time served as a pul, but is now in runs. A small portion is, however, used as a customs office. The European hungalous are mostly within the fort, but the majority of the native population reside in Poraryar, a mile mland

Vallam.—Town in the taket and District of Tamore, Madras, numbed in 10° 43 N and 79° 5 E, on a small plateau 7 miles south west of Tanjore Population (1901), 7,590 Vallam is one of the pleasantest and healthiest places in the District, and the usual residence of the Collector - It had formerly a strong fort, built presumably by the Nauk Rayls in the sixteenth or seventeenth century, which was taken by the British under Colonel Joseph Smith on behalf of the Nawab of Arcot in 1771. and remained in their occupation until its restoration to the Rail of Tanjore in 1776. Few traces of the defences now survive, except the most. A mered tank within the fort is been in the solid rock and unusually deep. It is called Veyra turkam ('the diamond pool'), and the popular tradition is that it was dug by India. An old Siva temple by its side contains many macriptions. The quartz crystals found in the neighbour hood, known as Vallam stones, are made into speciacles and ornaments. There are also extensive gravel quarties

Vedäranmyam (Tamil Teremaraikhade) — Town in the Trustimappinch täkel of Tanjore District, Madras, smiated in 10° ss' N and 79° 50' E. Population (1901), 14,138. It is the head-quarters of a deputy teketidär. The great Vedäranmyam salt swamp, which covers a tract about 30 miles long by 4 or 5 miles wide, lies to the west of the town. It is filled by

two periodical high tides which occur about full moon in May and June respectively. About a feet of water is retained by means of an earthen bank with alunces, as it evaporates salt is formed in large translucent blocks. This is stored in the Government factory at Vedstranniyam, and conveyed thence to the depôt at Negapatam by the Vldaranniyam.

VedEranmyam Canal,—This canal, in Tanjore District, Madras, was constructed in 1869. Inclusive of its subsequent extension to the salt awamp south of VedEranmyam, its total length from Negapatam to its southern end in 35½ miles, made up of 13½ miles of the already existing channels of the Adappar, Vellär, and Kaduvaryär rivers, 10½ miles of dramage streams intercepted in their passage down to the sea and 12 miles of new cuts connecting these together. It was designed, and is chiefly used, for the transport of salt from the Vedaranmyam factory to the depôt at Negapatam, but, owing to the absence of a good road between these two places, it is also resorted to for general traffic. The cost of the canal amounted to Rs 1,34,000. It is maintained jointly by the Public Works department and the District board.

TRICHINOPOLY DISTRICT

Truchinopoly District — An inland District in the south of the Madras Prendency lying between 10° 16 and 11° 32′ N and 78° 8 and 79° 30′ E, with an area of 3,632 square miles. It takes its name from the famous city which is its administrative head quarters. The word is popularly derived from Triss rappalls, meaning the town of Trians ('the three headed'), a rational, or demon, the brother of Ritvana, the villain of the Ramayana, who is said to have ruled the place. The District is bounded on the east by Tanjore, the dividing line for some distance being the Coleroon river, on the north by South Arcot and Salem on the west by Combatore and Madura, and on the south by the State of Pudukkottas.

A small rambling range of hills called the Pachantalars (green huls), which extend into Salem District, lies in the north western corner, and towards the southern and south western borders the country is broken up by rocky bills covered for the most part with scrib jungle. But elsewhere the general character of the District is an undulating plain, divided east and west by the valley of the Cauvers and dotted here and there with small hills, of which the great rock fort in Trichi Nopoly City, the neighbouring Golden Rock near the Central pul, and Ramagin near Kulittalar are the principal examples

The Cauvery is one of the chief natural features of the District. It runs across the centre from west to east, and at the body island of Srinangam splits into two branches, of which the one retains the original name of Cauvery and the other is called the Coleroon. These are the most important rivers in the District, and receive the greater part of its drainage. In the north, a small area drains into the Villa, which forms the northern boundary for some distance.

The eastern half of the more northern of the two portions into which Inchmopoly is divided by the alluvial valley of the Cauvery is occupied by sedimentary deposits, the western by Archaean guesses and granites, mostly homblendie. The southern of these two portions is formed of Archaean rocks, granites and guesses, overlaid in the south east corner of the Trichmopoly tillak by a thin bed of conglomeratic interrie,

which has been carved by local depudation into a number of patches forming miniature plateaux. Crystalline impetone occurs in several places north and south of the Cauvery, the prevailing colours being light grey, white, pink (of great beauty), and blush. Two great and generally rich beds of magnetic from he at the southern end of the Pachaimalass. Neither the limestone nor the iron has been worked, though the quantity available is large. The oldest of the sedimentary deposits referred to above are representatives of the Upper Gondwana. or Rajmahal system, a formation remarkable for contaming great quantities of plant remains of Jurassic age. The so-called plant beds near Uttattur in the Perambalur tahuk contain numbers of these fostil plants. Their age is considered to be intermediate between the Rajmahal beds proper and the Jubbulgore group of the Indian Jurasuc rocks. An irregular area nearly 400 square miles in extent, lying between the (anvery and the Vellar, is occupied by Cretaceons rocks, the fossils in which have excited much interest among scientists The most noteworthy of the Cretaceous deposits are the coral reef limestones near Uttattur and the shell limestone of Garuda. mangalam a very fine hard bluish grey rock, in parts translucent and largely made up of beautifully preserved gasteropods and lamellibranchiats, often returning their original polish and sometimes their necular coloration. This is the so-called Inchinopoly marble, and is much valued for decorative purposes. Resting on the appermost Cretaceous rocks on the castern aide of the District is an unfossiliferous gritty sandstone, very frequently ferrugmous, which covers the greater part of the Udayarpolaryam takik, and is itself very largely overlaid with red sands. In the latentic sands near Nannivar, two palaeolithic implements have been found, one sharp-pointed, and the other oval. In the north of the same village is a bed of true flints, said to be unique in Southern India.

The flora of the District presents no points of interest, resembling closely that of the other areas along the eastern side of the Peninsula. The growth on the Pachaimalas is of the drier deciduous type, characterized by the abundance of Lispphus and Terminalis.

Leopards and beam are occasionally found in and about the Pachaimalais, but there is no other large game in the District Supe, teal, and duck are, however, plentiful

The Pachannalat hills are malanous, but elsewhere the chinate is on the whole unusually dry and, perhaps on this at count, healthy for both natives and Europeans. It is also

more than usually hot. The annual mean temperature at Trichmopoly itself (84°) is higher than at any head quarters town in the Presidency except Trivalvelly, Cudbapan, and Nellore.

The annual namfall in the District as a whole averages 34 mehes, of which 16 are received during the north east monsoon, 12 during the south west monsoon, and 5 m. April and May The fall in the northern tellular, especially in Udanjärpalaiyam and Perambalur in the north-east corner, is heavier than in the aouth, averaging 39 mehes against 31 m the latter. Few natural calamities have taken place. Cyclones occur but rarely. The country is not specially hable to scarcity, as the Cauvery and Coleroon, on which the greater portion of the migated lands are dependent, seldom fail. The chief danger to which the people are exposed is from the floods in these two mers. These, especially when accompanied by heavy local ruinfall are apt to breach the embankments on either side of the river beds and cause severe damage to crops. The banks are being gradually strengthened throughout.

The history of Trichmopoly goes back far into antiquity The capital of the Chola longs, who are mentioned in the Asola inscriptions of the third century B C, and by Ptolemy m the second century A D , was originally at Uraiyer, now a suburb of Trichmopoly city, and in the eleventh century at GAMG41 LONDAFURAN in the Udarpurptleman talus. The ruins of a splendid temple and tank are still standing at the latter place. About the middle of the thriteenth century the Dutrict. passed under the Hoysula Ballalas of Doresamudra and soon afterwards under the Pandyas of Madura, who, in spate of occasional interruptions, combinued in possession of it till the beginning of the fourteenth century, when it was overrun by the Muhammadans under Mahk Asfur, the general of Alit ud din Khilp of Delhi. About 1378 it became part of the name Hindu entities of Vincenagar, and during the auteenth century. after the downfall of that dynasty, passed into the hands of the Nack rulers of Madura Virtanatha, the founder of this line, is said to have built the greater part of the fort and town of Frichmopoly, and about the middle of the seventeenth century Chokkanātha, another of the line, removed his capital from Madura to Trichmopoly and erected there the building known as the Nawab's Palace—using, it is said, a great deal of the material of the celebrated palace built at Madura by his ismous grandfather Tyramels Natk

The last of the Nack rulers thed childless in 1731, and the

subsequent disputes as to succession were taken advantage of by the Nawib of Arcot Chanda Silhib, his Diwan, accord Trichinopoly and treacherously imprisoned queen Minikuhi. one of the claimants. She posioned herself, and her rivals called in the Marathas, who took Trichinopoly in 1741 and appointed Moran Rao, the adventurous Maritha ruler of Gooty, governor over the town. Two years later the Nizim ul mulk. Sühahdar of the Decean invaded the Camano and Trichmopoly surrendered to him. He appointed Anwar ud din as Navab of the Carratic in 1744, and from that date I richi nopoly passed under the nominal rule of the Nawahs of Arcot During the Wars of the Carnetic, between 1749 and 1761, the famous rock fortress of Inchmopoly underwent more than one stege. On the first occasion (in 1751) Muhammad Ah, the son of Anwar ad-din, and his alices the English were besieged by Chanda Sahib, an aspirant to the Nawabship of the Carretic, and his supporters the French. A number of engagements took place between the two parties, chiefly on the Strangam island and in the villages bordering on the old road from Trichmopoly to Madras, Clive taking a conspicuous part in the operations, and in the end Chanda Sahib and the French were defeated

The second stege occurred in 1753. Nanjural, the general of the Mysore army which had been helping the English and Muhammad Ah in the previous operations, claimed Inchi nopole as his reward, alleging that it had been promised him by a secret treaty with Muhammad Ali. His claim being disregarded, he laid stege to the place and attempted to reduce it by famine Major Lawrence came to its relief. The French. had meanwhile been greath strengthened by reinforcements sent by Duplers, and quitting Surangam they crossed the Cauvery and encamped on the plain close by the present hakm's Rock. Here they were attacked by I awrence and defeated in the engagement which the historian Orme calls the battle of the Golden Rock Lawrence proceeded to Tantore to obtain reinforcements from the Markthas. On his return he found that the French had blockaded the city on every side He provoked them to a general engagement and defeated them again at the battle of the Sugar loaf Rock (now called the Golden Rock), not far from the present Central pul-

When war broke out again in 1756, the French under D'Auteul once again tried to take Trichmopoly. The vigilance of Captain Calliand, who hurned to its relief by forced marches from Madura, frustrated their designs. Their last attempt upon the Rock was m 1759, when a detachment sent by Lally occupied Simingam. Lally's defeat at Wandiwash upset his plans, and the fall of Pondicherry early in 1761, which established the success of the British arms in Southern India, and the Treaty of Paris in 1763, which recognized Muhammad Ali as Nawah of the Carnatic and placed Trichmopoly under his government, ended the conflict between the two rations. In 1768 Haidar Ali of Mysore devastated the District, and on the renewal of the war in 1780 he invested its capital. His defeat at Porto Novo in the succeeding year compelled him to withdraw. The only other attempt upon the fort was made by his son and successor Tipu in 1790, but it ended in nothing

In 1781 the Nawah assigned the revenues of the Carnatic, including Trichinopoly to the English, and civil officers, known as Superintendents of the Avegned Revenue, were for the first time appointed to administer them. In 1792 the assignment was surrendered to the Nawah, but Trichinopoly continued to be commanded by British officers. In 1801 it was coded to the British, with the rest of the Carnatic, by the Nawah of Arcot

Prehistoric kistiaens occur in the Perambalur Hilah, in one of which, opened in 1897, were found pieces of human bones, a small polished earthen pot 6 meches in diameter, and the nount of an iron sword. Some Roman come have also been discovered. Buddhist images of stone exist in the Udaiyama. laryam, Kulittalar, Perambalur, and Trichmopoly tabels. The Dustrict is supposed to have been situated at the injunction of the territories of the Pandya, Chola, and Kongu dynastics. and tradition places one of their boundaries in the extreme west along the river Karaipottänär (the name means 'the river that marks the boundary'), which falls into the Cauvery about 12 miles to the west of Musin, and along a large earthen embankment which continues the line of the river continuants into the Kuhitalai tālisk on the other side of the Cauvery The hamlet of Palayasengadam in this stakes is locally declared to have once been a Chola capital, the name being said to be a contraction of Palaya Jeyamkondacholapuram, or 'the old town of the victorious Chola? An extensive ruined camp close by and a very perfect and well-constructed stone tank are pointed out in support of the tradition. The later Jeyam kondacholapuram is in the Udaryarpalaryam tähtä

Of the temples of archaeological interest the most important are those on the Trichinopoly Rock and at Strangam (and Jambukeswaram), Gengaikondapuram, and Samayapuram, while the most notable piece of civil architecture is the palace of the seminally of Udaiy Erpilaryam.

The District comprises 937 towns and villages. The population in 1871 was 1,200,408, in 1881, 1,215,033, in 1891, 1,372,717, and in 1901, 1,444,770. The increase during these thirty six years has been at about the same rate as in the rest of the Presidency, namely between one-fifth and one-fourth, and Trichinopoly is now one of the half-dosen most densely peopled Districts in Madras. The very small advance between 1871 and 1881 was due to the great famine of 1876-8. The District is divided into the five Albahr of Kulittalai, Musin, Perambaltir, Trichinopoly, and Udaiyārpālaiyam, statistical particulars of which in 1901 are appended—

	4.7	N	alter of	4	L	, 5 E E . S	18 8_ I
Tulnik	de su vary	I I I	Village	Population 1 pos	Contractor of the contractor o	Promise Transce Parent Parent Transce	Namber Personal
Udaiyërpëlaryam Perambalër Muara Kuhttalai Trichmopoly	753 674 762 901 842	1 	228 118 146 146 219	300,708 204,257 294,383 263,331 382,091	304	+35 +47 +44 +81 +59	14,3 ⁸ 4 8,022 14,847 11,931 46,848
Total	3,632	5	933	1,444 770	398	+ 5.2	95 527

The head quarters of the first of these are at Jeyamkondacholapterum, while those of the others are at the places from which they are named. The chief towns are the municipalities of Trichinopoly (population, 104,721) and Srifanoam (23,039), and the Unions of Turaiyur (12,870), UDAIYARPĀ-LAIYAM (7,553), and Armalür (7,370)

Out of every 100 of the people 92 are Hindus, 3 are Minalmans, and 5 are Christians. These last increased during the decade 1891-1901 considerably faster than the population generally. Tamil is the prevailing vernacular, being apoken by 84 per cent of the population, but 12 per cent speak. Telugu (in the Munin takké the percentage is as high as 21), and 2 per cent Kanarese.

About 35,000 people (of whom 19,000 are the shepherd Kurumbus) belong to Kanarese castes, and 178,000 (among whom the Käpus, Balijia, Chakkiliyans, and Oddes are the most numerous) are Telugus by race. The rest of the Hindu population consusts mainly of Tamila. The five castes which occur in the greatest strength, all being usually cultivators,

are called Palls (148,000), Pararyan (136,000), Ambalakaran (129,000), Vellala (112,000), and Pallan (109,000). The third of them, the Ambalakarans, are more numerous in Trichmopoly than in any other District. So also are the two castes of the Muttiriyans and the Uraha, who are in some obscure manner connected with them, being perhaps descended from the same parent stock. Other castes which are found here in greater strength than elsewhere are the Sudarmans and Nationans. These two bodies of agriculturists are singling themselves out by following some of the Brahmanical customs. Of the Musal mans the majority are Labbata, a mixed race of enterprising traders, spring from unions between immigrant followers of the Prophet and Tamil women.

Except that the people are even more exclusively agricultural than usual, 73 per cent of them subsisting by the land and a per cent more by pastoral callings, their occupations in the mass present few peculiarities

Of the 76,660 Christians in the District in 1901, 72,352 were Roman Catholics, and of these 71 gfr were minves. In 1623. Ropert de Voluls of the famous Madura mismon, established a Jesuit station at Inchinopoly. In the next century progress was checked here, as elsewhere, by Papal decrees prohibit ing certain Hindu customs tolerated till then among converts, by the cessation of support from Portugal, and by the suppression of the Society of Jesus in 1773. The Society was, however, re-established in 1814, and in 1816 the Madura mission was entrusted to its care. Father Louis Garnier de Falton, who was put in charge of the congregation of Trichmopoly, revised the work of the mission, which had mink very low, and built the cathedral in the cantonment and a house which he originally intended for a college, but which is now used as a residence by the bishop and his clergy. In 1846 the Right Rev Alexis Canor, S.J., was appointed first Vicar Apostohe, and when the Hierarchy of India was constituted m 1886, the Vicariate was made into a diocese under it and the episcopal residence was located at Trichmopoly. The portion of the District lying to the south of the Cauvery and the Coleroon belongs to thus diocese, while that on the north belongs to the diocese of Kumbakonam. The former diocese. as suffragan to the metropolitan see of Bombay, and the latter to the see of Pondicherry The Gonnese Roman Catholic congregation is scattered about in small communities, under the production of the such diorese of Gos and the diocese of San Thome of Mylapora.

The Protestant missions working in the District are the Society for the Propagation of the Gospel, the Leipzig Lutheran, and the Weslevan Mission. From 1762 to 1778 Swartz, the famous missionary of the Tranquebar Danish Mission, worked at Trichinopoly with the help of the Society for the Promotion of Christian Knowledge, and after him the Rev C Pohle carried on the work for over forty years. In 1825 the S P G took it up, and continues to do considerable work to this day. The Weslevan Missionary Society began its labours in 1847, and the Leipzig Lutheran Mission in 1850. The converts belonging to these three missions number about 2,700, 400, and 1,200 respectively.

Of the total area of the District, according to the classifical of the settlement, 6 per cent is alluvial land, 40 per cent black soil, and 54 per cent red earth. The first of these occurs in the valleys of the Cauvery and Coleroon. The rigar, or black cotton soil, prevails in the uplands lying to the north of those rivers, occupying about two-thirds of the area in the eastern portion, towards the west black soils are found in the lower ground, but are overland with sand on the higher levels. South of the Cauvery the upland is generally covered by poorer soils, chiefly of a gravelly or sandy nature, and overwide tracts these are so impregnated with soda salts as to be almost bare of vegetation. Both 'wet' (imagated) and dry' crops are mostly matured by means of the north east monsoon in Octo ber and November, but cultivation is begun before this sets in

Of the 3,632 square miles of the District, ryateurs and immor taken villages occupy 2,820 square miles, samindāris 634, and whole taken villages 178. Agricultural statistics are available for only 3,041 square miles, of which, in 1903-4, 315 square miles (10 per cent) were forest, 429 (14 per cent) were not available for cultivation, 271 (9 per cent) were cultivation by taken up for cultivation, 507 (17 per cent) current fallows, and 1,519 (50 per cent) formed the area cropped. Statistics by taken for that year are given in the table on the next page, in square miles.

The staple food grains of the District are rice, chelan (Sorghum tulgare), cambi (Pennisetum typhedeum), tara, i (Paspalum scribiculatum), and rägi (Eleusum arracana). The area under these crops in 1903-4 amounted to 1,320 square miles, or 78 per cent of the total area cultivated, the respective percentages under each being 21, 16, 15, 15, and 11 Other food grains occupied 9 per cent. The only other crops worth notice are gingelly (Sesamum indicum, 22,000 acres),

ground-raits (35,000), and cotton (17,000). The Udaiyārpālaiyam and Perambalur inlinks mainly produce consist and variget, Musin and Kuhttalai clisions and cassion, and Trichinopoly clisions and rigs. Cotton is grown mostly in Musin and Perambalūr, and ground nuts almost exclusively in Udaiyārpālaiyam. The seed of the ground nut introduced from Maunitus is said to give a much better yield than native seed. Otherwise there have been no recent improvements in agricultural practice. The crops raised on the Pachamalais do not differ materially from those cultivated in the plains.

Totale	Arve shows at accounts	Faculti	Cultivable waste	Cultivated	Irogated
Udar-Erpelary am	كهج	28	43	36 2	87
Person bullin	667	. Bg	108	4 01	87
Muset .	698	164	69	417	78
Relitteles .	597	40	30	476	33
Trichmopoly	543	10	gr.	371	145
Dustruct total	5 04T	315	271	1,016	139

As compared with the average of the five years before the famme of 1876-8, the area in occupation during the quinquenmum preceding the resettlement of the District in 1894-5 showed an increase of 8 3 per cent., and the average of the easht years succeeding this a further increase of q-1 per cent The average area occupied in the five years before 1901 rose by 1-2 per cent above the average of the five years preceding 1891, compared with an increase in the population of 5-2 per The population is thus thereaming more rapidly than the area under cultivation. About 300 square miles are still available for cultivation, nearly two thirds being in the Peram. balm and Musin taluks. The tyots have availed themselves of the Land Improvement Loans Act only to a limited extent, Rs 04,000 having been advanced between 1888 and the end of June, 1903. The money has been mostly applied to the constituction and repair of wells

Both bullocks and buffaloes are used for agricultural purposes, but they are usually undermed and of no well defined
breed. They are bought and sold at the weekly local markets,
of which those at Manappärat, Turanyür, and Arryalür are the
most important. A better class of animals, imported from
Salem and Mysore, are sold at the annual Samayapuram cattle
fair. But latterly this has unfortunately been closed to bullocks
from these two places, lest plague might be introduced into the

District. Sheep and goats are of the usual varieties, and are kept chiefly for the sake of their manure and akins

Of the total area of ryetmers and 'minor sades' land cropped In (1,519 square miles), 339 square miles, or 22 per cent. are irrigated. Of this, 160 square miles, or nearly half, are watered. by channels from the Cauvery and Coleroon, 91 square miles from tanks, and 77 square miles from sells. The principal channels are ancient works constructed by former native governments. They are supplied by horanders or temporary dams annually constructed in the bed of the rivers, and are used not only for direct irrugation, but also to conduct water to the tanks. They are annually washed away when the rivers rise m flood. Up to forty years ago they were managed by the villagers, but they are now under the control of Government. The whole system is still a rough and ready one, and stands in marked contrast to the splendid irrigation works which span the Cauvery and Coleroon (see CAUVERY) within the District for the benefit of the Tanjore delta mimediately adjoining The tanks in the District number 1,500, and the wells, which muste nearly as wide an area, 37,000

Trichmopoly contains 305 square miles of 'reserved' forest F and 10 square miles of 'reserved' lands. The Pachamalais contain some teak, blackwood (Dalbergia latifalia), sandal wood, and bamboos, as well as Albernia, Terminalia, and Ptermarpus. The Reserves in the plams and on the low hills, as well as the plantations on the banks of the Cauvery and Coleroon, are chiefly used as fuel reserves. Several varieties of Acada (arabica, plausis ons., and leucephlase) abound in the uplands, while the trees principally grown in the plantations are Acada arabica, camusina, hadukkapuh (Pithacelebrum dular), vägus (Albernia Labbek), gette (Dalbernia Sissoo), nim (Melia Asadi rachta), and nāval (Eugenia Jambolana). The forest area in the adjoining Tanjore District being inconsiderable, the Forest officer of Trichinopoly is in charge of that District also

There is no mining in the District, except some surface I quarrying of laterite, white clays, and granite. Of the last, the black homblendic variety is much prized and largely used in building temples. The clays are white varieties, used for pottery and for painting the seasons or sect marks were by Vaishnavites on their foreheads. The potters is of the ordinary designs, when burnt, the clay assumes a bluish white tings. The shell marble of Garudamangalam is worked to a small extent. Crude and refined saltpetre are made in considerable quantities. The unworked minerals are iron,

limestone, phosphatic nodules, gypsum, mica, mignesia, and garnet. Phosphatic nodules containing about 57 per cent of phosphate of lime are found in the neighbourhood of Uttattur, over a tract of country 1 mile in width and 10 miles in length, both on the mirace and imbedded in the clay, but their conversion into soluble manure is attended with some difficulty Gypsum occurs in the neighbourhood of Uttattur and Maru vattur in fibrous or transparent plates, but it cannot be obtained in any quantity free from clay which destroys its whiteness. The mica found near Manapparai will not divide properly into scales. Magnesite strings in travertine or cal careous tufa, apparently due to the action of old thermal springs, are met with at Tripangah and Vahlandapuram. In one place in the crystalline limestone massive garnet (caldente) has been found

The arts and manufactures of the District are unimportant Weaving occupies the largest number of persons, but as a rule only coarse fabrics are made. Fancy cloths of cotton and tilk with borders of silver thread are, however, made by the Patnullarans of Inchmopoly city. These are worn by the richer classes of Viuhammadans and are exported to various places in the Presidency. The silk is imported raw, and is rleaned and died by the weaters. The silver thread used for the borders is generally imported from Europe but a specially good and proportionately expensive variety as sometimes obtained from Lumbalconam Woollen blankets of an in ferior kind are made by the knrimbas in many villages. especially in the Musin and Perambahir tislishs. They are generally woven of black wool chipped from sheep reared by the kurumbas themselves. White blankets and woollen and cotton carpets are also manufactured to a limited extent

Trichmopoly gold and silver ware was once famous and in great demand but a decline has occurred owing to competition from Madius. There is still however, a fair local demand. The work is rougher than the frosted niver ware made in Madras, but is by no means destitute of fancy and originality. Brass and copper vessels and plates are made at Trichmopoly and a few other villages. They are devoid or nearly so, of all ornament. Worn out copper com sold at the Triangly for its value as metal, is used for custing idols and for making brass. A well known artificer of brass and copper idols lives near Lähigudi village. Glass bangles are made by Gazula Ba 19 Chettis in the youth of the District from earth obtained

from Pudukkottal territory and in the Udalykrpalaryam Maka. The estimated value of the annual production is about Rs 12,000. There are also a few manufacturers of ornaments such as pith models encrusted metal ware, and paintings on take and every. The two former, and also the silk cloths already mentioned gained prizes at the Dellin Darbar Exhibition, the pith work receiving, in addition, a bronse medal. This last is cheap and decidedly effective. Favourite subjects for it are models of the various famous temples which are one of the best means of giving an untravelled European an idea of the characteristics of South Indian Hindu architecture. The lightness of these models and the ingenious way in which they are packed renders them suitable for export. They are not as well known as they should be

Among the manufactures and industries may be mentioned two screw cotton presses, one at Trichmopoly and the other at Anyalur in which about 600 tons of cotton are pressed annually. Seven tanneries are working in and about Trichinopoly city. The value of the annual output of tanned skins is estimated at over 5 lakhs, and the leather is largely exported to England Outside the Madras Presidency, Trichinopoly city is best known for its cigara, of which some 12 000,000, valued at about Rs 75 000, are annually manufactured and exported The tobacco leaf is mostly obtained from Diapigui. The industry has suffered heavily from the competition of Madras and Dindigul cigars wrapped with the milder leaf grown in Java and Sumatra, but good plain cheroots are still turned out at reasonable prices. There are several iron screw oil presses in Trichinopoly city, in which lamp-oil is extracted from castor seed. The cold drawn oil is heated before being put into casks for export. Without this precaution it is ant to become rancid

The chief exports of the District are cereals and pulses, chillies, cotton, gangelly, ground nuts, plantains, coco-nuts, betel leaf, jaggery (coarse sugar), tanned hides and skins, easter oil, oil cake, saltpetre, stone, and cigars. Most of these are sent to adjoining Districts. Ground nuts, which are now largely grown in the Udavyārpālavyam isalish, are exported to Kumbakonam and Cuddalore for English, French, and native firms. Tanned hides and skins are sent to Madras and thence to England Plantains are exported to the State of Mysore, and coco-nuts as far north as the Nizām's Dominions. Cigars are sent all over India and also abroad. Cotton is railed to Madras and Viridupatti. Oil cake goes to Tuticorin, probably for export

by sea to Ceylon. The chief imports are grain and pulse from Combatore, castor seeds from the same District and Salem, cotton seeds from Virudupatti, coco-nut oil, pepper, and areca nuts from Malabar, raw tobacco from Madura and Combatore kerosene oil from Madras, piece goods and twist from Madras and Bombay, and salt and salt fish from Tamore and Timeselly Trichinopoly city is the chief centre of general trade, as a large portion of the rail borne traffic has to man through it, the tract of country to the north of the Carnery and Coleroon rivers being accessible only by the bridges which cross these rivers near the city. Considerable traffic between the Udanyarpalaryam tähtä and Kumbakonam passes over the bridge on the Lower Amerit (see Cauviry) across the Coleroon. Among mmor centres of trade may be mentioned Artyalur, where there is a cotton press, Perambaltir, and Turaryur. The principal trading castes are the Chettis and Labbara There are several Nattrakottas Chettia, Gujaratia, and Mikrwitze in Trichmopoly city. Most of the internal trade is effected through the weekly markets, of which twenty four are under the control of the local boards. The right to collect fees at these was leased in 1903-4 for Rs 14,000. The most important are at Ariyalur, Manappanai, and Turaiyur as an contemplation to expend the fees collected at the first of these in bindging a large river which crosses the road from that town to TATIORE.

The railways of the District include the main line of the South Indian Railway, and its branch from Trichmopoly to Brode. The former enters the District from Tanjore on the east, passes through its head quarters, and thence runs south westward across it. The Erode branch proceeds westward from Trichmopoly along the southern bank of the Causery into Combatore District. The section from Tanjore to Trichmopoly and thence to Erode was originally built on the standard gauge, and was opened for traffic as far as Trichmopoly Fort in 1862, and to Kartir (in Combatore) in 1866. The line to Trichmopoly was converted to metre gauge in 1875, and that to Erode in 1879.

The Dutrict board has recently begin to levy a cess of 3 pies in the supec of land assessment for the construction of such local steam trainways or railways as may eventually be decided upon. It is also in contemplation to build a standard gauge line, connecting with the other great broad gauge systems, from Arkonam through Trukkoyilir and Trukh popoly and on to Ramand and the proposed port on Pamban

island. This would greatly benefit the north of the District, which is at present much soluted.

The total length of metalled roads is 596 miles, and of immetalled roads 145 miles. With the exception of about 37 miles of unmetalled toads maintained by the Public Works department, all these, as well as the Canvery and Coleroon bridges, are at present in charge of the local boards. Avenues of trees have been planted along 663 miles. The chief lines are the Madras trunk road from the north of Perambaltir to Madura, and a sense of lesser routes radiating from Trichi nopoly city to Karur, Dindigul, Pudukkotta, Tanjore, and Udaryarpālaryam, and to Salem District through Penambalur, Turayur, and Musm. The large number of these roads as a severe tax upon the resources of the hourds. Their chief defect her in the many small unbridged streams which cross them. These become torrents in the monsoon and sand heaps. in the dri season. Tolks are levied at fifteen places, the right to collect them being lessed annually. The lesse fetched Rs 55,000 in 1003-4

There are thirty five fermes across the Cauvery and Coleroon, the boats used being circular coracles made of hides stretched on a light framework. These fermes were leased in 1903-4 for Rs 15,000. The most important is that which plies between the towns of Musici and Kulittalai. The chief bridges are that across the Cauvery connecting Trichmopoly with Sriangam island and town, and that over the Coleroon joining the opposite side of the island with the northern bank of that river. The Grand Amout and Upper Amout (see Cauvery) both carry bridges, but as each of these crosses one of the two rivers, they are useful only for the limited amount of traffic which goes from the mainland to the extremities of the Strangam island. The Lower Amout bridge, as already mentioned, forms an important outlet for traffic.

Trichmopoly appears to have suffered in the famines of 1804, 1 1807, 1811, 1814, and 1833, but no particulars are available. During the famine of 1866 an average of 2,495 people were gratuitously reheved daily during the four months August to November, but the number on relief works was very small. The maximum number relieved in any month was 4,166 in September, 1866, and the total cost to the state was only Rs 6,000. In the famine of 1876, 8, the average number of people reheved during the twenty two months from December, 1876, to September, 1878, was 4,423 namely, 2,318 on works and 2,105 gratuitously. The maximum number reheved in

any one month was so,550 (December, 1877). The cost of the famme to the state was 5 lakhs (1 lakh for grainitous reises and 4 for works). The District suffered comparatively little, and distress was due less to failure of crops than to high prices caused by the exportation of grain to other areas. There has been no famine since

For administrative purposes the five tables are grouped into three subdivisions, all the officers in charge of which are usually Deputy Collectors recruited in India These are the Trichino poly subdivision, commuting of the Trichmopoly talus only, the Musin subdivision, comprising Musin and Kulittalai, and the Armalür subdivission, made up of Perambalur and Udanyar palaryam. A taknidar and a mationary sub magistrate are posted at the head quarters of each fahile, in addition to deputy takuldars at Trichmopoly city, Lahaguch (Trichmopoly tālak), Turaryur (Musiri tāhik), Manappārai (Kuhttalai tahik), and Kilapalur (Udanyarpalanyam takuk) These officers have both revenue and magneterial powers. There are also benches of magnitrates for Trichmopoly city and Stirangam. The superior staff of the District consists of the usual officers. The Collector is an afficia Political Agent for Pudukkotta State Trichmopoly city is the head quarters of a Deputy and an Assistant Commissioner of Salt and Ahlan Revenue, of a Superintending Engineer, and of the South Indian Railway

Civil pistice is administered by a District Judge and the four District Munsels of Trichinopoly, Strangam, Kuhttaku, The two former both hold their courts in and Anyalür Trichmopoly city and have jurisdiction over different parts of the Trichmopoly takes, the Stirangam Munsif taking, roughly speaking, the part of it which lies porth of the Cauvery, and the Trichmopoly Munsif the rest. The other two Munsifitry cases arising in the subdivisions of Music and Ariyahir Criminal matice is administered on the usual lines, there being a Court of Seasons besides the subordinate magnificates already mentioned and the three divisional officers. The District is no more addicted to crime than its neighbours, but the system of paying rewards to thieves for the recovery of property stolen instead of reporting the thefu to the police prevails to an unusual extent and takes unusual forms. The Kallana, the most enminal caste, exact, for example, what amounts to black mul from all classes, even from Europeans, by ensuring that those households which employ a watchman belonging to this community shall be exempt from thefts, but that those which do not shall suffer proportionately. This practice is a relic of the old native police system, under which every one paid **Adval* ("watch") fees, and the watchmen were bound to make good any losses due to theft, and its evadication is a matter of the greatest difficulty. In Madura, recently, the whole population combined against these evacuous of the Kallans, and after several riots and some bloodshed were successful in breaking them down to some extent.

No detailed information is available regarding the revenue I. system in force under the Chois and Vail dynasties, but it is * known that the land tax collected by them amounted as a rule to to half the gross produce and often more Under Muhammadan rule, which immediately preceded the British occupation, the revenue was collected in kind in arrigated talaks, the crops being generally equally divided between the government and the ryot after a deduction of 5 per cent of the gross produce had been made for cultivation expenses. In certain cases, however, the roots were allowed to take from 55 to 683 per cent of the produce. The fees due to the village servants, which varied from 23 to 28 per cent of the gross produce, were need by the ryots out of their share. In the 'dry' portion. of the country the land tax was collected in money, the rates in some villages being based upon the crop raised and in others upon the nature of the soil. The sale of gram was a strict government monopoly and large profits were made from it

When the country came under the British Government, the Muhammadan system was at first adhered to, except that payments in kind were commuted into a money assessment But the resources of the country had been exhausted by previous misgovernment and by war and famine, and this hand tax pressed heavily on the people, the eval was appravated by frequent floods, by deficient ramfall, and by a fall in the price of food grains. Various experiments were made to lighten the burden—a triemual lease, a decemnal lease, a settlement with each ryot metend of with the head of the village or the village community, the reduction of the assessment, and the measurement of the fields and classification of their soils by the Acresons or village accountants, but up to 1854 agricultural depression continued to be more or less marked. One great reason was the extraordinary fall in the price of produce, making all fixed money rents difficult to meet, which was due to causes in operation throughout India. Owing to the slow development of export trade and the remittance of a compderable amount of specie to England, the currency of the country had become manificient for its

requirements under the altered conditions brought about by British rule namely, the development of internal traffic, and the substitution of cash payments for payments in kind both in the receipt of times and the disbursements by Government. The revenue system was moreover very complicated and required amendment and simplification, and the need of a professional survey and settlement was much felt.

The survey was commenced in 1854-5 and the settlement in 1858 o. Soils were classified on a fixed plan, and the rates of assessment fixed were twenty-one in number for irrigated lands (varying from Rs 7-8-0 to R i per acre) and nmeteen for 'dry' lands (varying from Rs 3-8-0 to 4 annas) The averages for 'wet' and 'dry lands were Rs 4-4-0 and about R. z respectively. These rates were introduced in 1865, and, though the survey had shown that the area under cultivation had been understated in the old accounts by 7 per cent, they resulted in a decline of 25 per cent in the revenue demand for the Dustrict Irrigation of second crop was charged from one third to one fifth (according to the quality of the source from which it was watered) of the assess. ment on the first crop, subject to a minimum charge of R 1 per acre. The cultivated land on the Pachaimalai Hills was assessed at 8 annas and 4 annas per acre, the latter rate being applied to the *** and the description of the supplied to the *** and the supplied to the supp All these assessments included a road fund rate of a per cent on the land revenue, but not the fees to villege servants, for which a cess of 6½ per cent on the revenue was separately levied

This settlement continued in force for the usual period of tharty years. In July, 1891, a new survey was begun, which was completed in 1893-4, and in the following year a new settlement was made. In the Cauvery valley, and in the case of lands under the Coleroon, Ameravatt, and Nandiyär rivers, the 'wet' lands, which had for the most part been under ancesed before, and the 'dry' fields among them were classified afresh on the lines previously adopted in the adjoining District of Tanjore For this tract the revised rates were twelve in number for 'wet' land, varying from Rs 18 to Rs 3-5-o per acre, and eleven in number for 'dry' land, varying from Rs 7 to 8 annas. Those fields in the Cauvery valley which had a sufficient and steady supply of water for two crops were registered as permanent double crop lands, and were charged one and a half times the single crop assertment, whether a second crop was mised or not. In other parts of the District, composition for the second crop charge was allowed at one-third, one-fourth, one fifth, or one sixth of the first-crop assessment, according as the land was watered by irrigation works of the second, third, fourth, or fifth classes respectively. No composition was allowed in the case of sources of the first class, but half the first-crop assessment was levied. In these parts the 'wet' and 'dry 'assessments were enhanced, in proportion to the rise in prices, by about 20 and 13½ per cent respectively, there was no reclassification of the soils, but certain tanks were raised from a lower to a higher class with reference to their improved capacity for irrigation. The average assessment throughout the District on 'dry 'land is Rs. 1-0-3 per acre (maximum, Rs. 5, minimum, 8 annas), and on 'wet' land Rs. 6-5 11 (maximum, Rs. 12, minimum, Rs. 3-8-0).

The effect of this resettlement was to raise the land revenue demand from Rs 15,97,000 to Rs 19,12,000, or by 19 7 per cent, but the increase has not injuriously affected agricultural interests, as appears from the facts that grain prices remain steady at a higher level than formerly, and that the price of land has not fallen. The rates adopted do not include the road cess of 2 per cent, as in the previous settlement, in its place the land cess is levied separately as elsewhere at one annum the rupee of the land revenue, or 6½ per cent, under the Local Boards Act. The revenue from land and the total revenue in recent years are given below, in thousands of rupees —

	riffic j	1890-1	1900-1	1947) 4
Land revenue	16 to	1	a6,7a	14 ⁹ 9
Total revenue	19,90	26 28	36 88	37,~5

Outside the two municipalities of Trichinopoly and Srirangam, local affairs are managed by the District board and by the three tābiā boards of Trichinopoly, Musin, and Arryalur, the areas under the control of which correspond with the three sub-divisions of the same names. The total expenditure of these boards amounted in 1903-4 to Rs 3,37,000, of which Rs 1,91,000 was laid out on roads and buildings. The chief source of income is, as usual, the land cess. Thirteen Union pancion at have been constituted under the Local Boards Act to look after sanitation in the smaller towns.

The District Superintendent is also or efficie Superintendent of the police in the Pudukkottai State. In Inchinopoly there are 56 police stations and one outpost, and the strength of

the force m 1904 was 11 inspectors, 87 head constables, and 624 constables, bendes 936 rural police or talaspars. The Central pail in Trichmopoly town holds 1,373 prisoners. The convicts are largely employed in weaving blankets for native troops and for prisoners from the wool removed from alins before tanning. Hand looms of the usual pattern are employed. Besides the Central pail, 9 subudiary pails contain accommodation for 152 male and 55 female prisoners.

According to the Census of 1901 Trichinopoly ranks muth among the 22 Districts of the Presidency in the hteracy of both its male and forsale population, the percentages of persons able to read and write being 12 9 for males, 0 8 for females, and 6 6 for the two seven together. Education, as might be expected, is most advanced in the Trichmopoly talish, Musin, Udayar palaryam, and Kuhttalat may be ranked together, while Peram balur is the most backward. In 1880, a pupils under instruction. numbered 10,786, in 1890-1, 24,728, in 1900-1, 33,325, and in 1903-4, 37 318 On Warch 31, 1904, the number of educational institutions in the District was 1,024, including 738 classed as public and 286 as private. Of the former, 697 were primary schools, 30 secondary, and 9 training or other special schools, and there were a Arts colleges in Trichinopoly city, maintained by the Jessit Mission (St. Joseph s) and the Society for the Propagation of the Gospel Girl pupils numbered 4,167 Five institutions were managed by the Educational department, 94 by the local boards, and 13 by the municipalities, while 365 were aided from public funds, and 261 were unsided but conformed to the rules of the department five Government schools consist of a training school for masters at Trichmopoly with an upper primary school attached, a lower secondary vernacular school for girls at Srimingam, and the primary gris schools at Persmbalur and Jeyamkondachola puram. The Society for the Propagation of the Gospel and the Roman Catholic Musion each have a school for the train mg of mistresses. The technical schools include two which teach shorthand and typewriting respectively, and the Puttur and Irungalite industrial schools for women managed by the SPG In the two latter the guls are instructed in lace The District board maintains an itimerating seasonal school, in which village schoolmasters are prepared for the primary examination, for a few months at certain centres. Of the male population of school going age as per cent, are in the primary stage of matruction, and of the female population of the same age 4 per cent. The corresponding percentages for

Musalmans (who, however, form only a small fraction of the population) are 75 and 4. Panchama pupals to the number of 2,614 are under instruction at 68 schools specially maintained for depressed castes. The expenditure on education in 1903–4 was Rs 2,96,000, of which Rs 1,46,000 was met from fees. The outlay on primary education was nearly 41 per cent of the total.

The District possesses 4 hospitals and 11 dispensaries. Two I of the former belong to the municipalities of Trichmopoly and a Surangam, one, at Irungalur, to the S P G, and the fourth, at Anyalur, to the täiste board. The dispensaries are all under the management of the local boards. The hospitals contain accommodation for 78 males and 55 females. The total number of in patients treated in 1903 was 1,900, and of out patients 191,000, the number of operations performed was 5,800. The expenditure amounted to Rs. 44 ooo, the greater part of which was met from Local and municipal funds. In addition, a police hospital and a charitable dispensary of the Jesuit Mission are maintained at Trichinopoly. The patients treated in these in the same year numbered 300 and 30,000 respectively.

As regards vecenation in rural tracts, the District occupies to middle place. In 1903-4 the number of successful vaccins tooms was a8 per 1,000 of the population, the mean for the Presidency being 30. In the municipalities of Trichinopoly and Strangum the proportion was 75 and 53 respectively, the Presidency average for all municipalities being 50. Vaccination is compulsory in these two towns and in eight of the thirteen Unions.

[F R Hemingway, District Gauetteer, 1906]

Arryalur Subdivision —Subdivision of Tuchinopoly District, Madris, consisting of the Udarvarpillaryam and Perambalur talishs

Udalyarpalatyam Taink — North eastern talua of Truch nopoly District, Madras, lying between 10° 54' and 11° 26 N and 78° 59' and 79° 30' E with an area of 753 square miles. It is bordered on the north by the Vellar river and on the south by the Coleroon. At the south eastern extremity is the Lower Anicut across the latter river, over which passes the trunk road from Kumbakonam to Madras. The population in 1901 was 300,708, compared with 290,563 in 1891. Of the total area, 204 square miles are included in the Udaryarpalaryam and Anyalur accordance. The towns are Udaryarpalaryam (population, 7,553) and Anyalur (7,370), and there are 228 villages. The bead quarters of the total area at Jeyamkonda.

cholapuram. The general aspect of the tälisk is flat, the soil is for the most part a mixture of red and and clay, but strips of alluvium run along the banks of the Vellär and Coleroon rivers and on the west Throughout the greater part of the Arrysiur samindars the land is black cotton soil, thinly spread over a substratum of himestone. This talk benefits most by the north east monsoon, and its average annual ramfall (30 mchet) is almost the heaviest in the District. The area cultivated in 1903-4 was 361 square miles, the principal crops being rice, combs, reg., doi, ground outs, and gangelly. The demand for land revenue and ceases amounted to Rs 4.01,000 17,600 acres of Government land and a considerable portion of the acutudant are covered with a ningle of low brushwood (Memorylon edule), of which large quantities are exported for fuel to Kumbakonam and villages in Tanjore District

Perumbaltir -- Northern #link of Trichmopoly District, Madras, lying between 10° 55' and 11° 32' N and 78° 40' and 70° 10' E, to the south of the Vellar river, with an area of 674 square miles. The head-quarters are at the village of the same name. The population in 1901 was 204,257, compared with 195,006 in 1891. The number of villages is 128. The demand for land revenue and ceases amounted in 1903-4 to Rs 401,000 The general aspect of the takes is flat, except m the north west, where the Pachaimalais, which separate it from Musers, run for a short distance into it. From these hills. up to and along the banks of the Vellär, stretches a continuous plann of black cotton and in which are large traces of stiff black clay. In the southern portion the country is rocky, and the soil as a rule poor. Channels from the Vellar and its two affluents the Kallar and Chinnar trugate a part of the tāluk, but otherwise the irregated crops depend upon tanks and wells. The ramfall is usually the highest in the Dutrict (30 inches annually) The area still available for cultivation is large being nearly two-fifths of the total unoccurred area in the District

Mitari Subdivision —Subdivision of Trichmopoly District, Madras, consisting of the Musical and Kultyralai tabels

Minari Taluk — Taluk in Trichinopoly District, Madras, lying between 10° 54' and 11° 23 N and 78' 10' and 78° 52' E., with an area of 762 square miles. The population rose from 282,619 in 1891 to 294,383 in 1901. The asket contains one town, Turarytiz (population, 12,870), and 156 villages. The demand for land revenue and ceases amounted in 1903–4 to 283 5,02,000. The taluk is bounded on the south by the Cauvery river. The Pachamalas Hills occupy the northern

part, and the Kollaimalais, which he entirely within Salem District, form the boundary at the north west comer. South west of the Kollaimalais is a detached hill, the Talamalai, which is a prominent object in the landscape, and commands a fine view. An attempt was once made to make it a hot season residence for the Collectors of Trichmopoly. There is another small hill (Triuvengimalai) about 3 miles to the west of Musici, from the top of which a good panorams of the Cauvery valley can be obtained. The Turaiyur samundare him in this talah. The Kattiputtur suttles in the south western corner is the only estate of this description in the District, and was transferred from Salem in 1857. It comprises five villages, and pays an annual pesthesis of Rs 15,900. It was created by Government in 1803 and given to Sarvottama. Rao, then head theristoder of Salem.

Kulittala. - Take in Trichmopoly District, Madras, lying between 10° 16 and 10° 59 N and 78° 8 and 78° 43 E, with an area of gor square miles. The population rose from \$43,700 in 1891 to 263,331 in 1901. The Ashah contains 220 villages. The demand for land revenue and cemes amounted in 1903-4 to Rs 3 73,000. The head quarters are at Kulittalai village. The Amaravati river impates a few villages in the north west corner, and the Cauvery, which forms the northern boundary, waters a narrow strip of land along that side. This tract is very fertile, but the soil in the remainder of the table is generally poor. There are low hills covered with shrip jungle in the south and south west of the many large bosses of gness with which the District is studded are in this talket one of these, called Rathaguri, is about 4 miles to the south south west of Kuhitulai village The southern portion of the tales, consisting of the Marunga pure and Kadavur samuadarus and thirty two Government villages, comprised the old Manapparai ashid, which was trans ferred from Madura District in 1856

Trichmopoly Taluk — Central total in the Dutrict of the same name, Madras, lying between 10° 38 and 11° 3 N and 78° 38 and 79° 1 E, with an area of 542 square miles. It forms a revenue subdivision by itself, and its chief town, Frichimopoly (population, 104 721), is the head quarters of the ribdivision as well as of the Dutrict. The population in 1901 was 382,091, compared with 360,829 in 1891. The number of towns and villages is 193, including the municipality and island of Strangam (population, 23,039). The talué is divided into almost equal portions by the valley of the

CAUVERY and COLEROON The demand for land revenue and comes amounted in 1903-4 to Rs 8,13,000

Arryaltir Town -Chief town of the santadars of the same name in the Udayarpalayam was of Trichmopoly District, Madras, attrated in 11°8' N and 79°5' E Population (1901), It is the head quarters of the Arryalür subdivision, which is in charge of a Deputy Collector and Magistrate, and comprises the tālisks of Perambalus and Udaiyārpālaiyam also contains a District Minist's court and a hospital, and a European firm has a screw cotton press here. Sating of various patterns are made in the town by the foreign neaver caste of the Patnulkinans, which are most handsome and effective and have a wide reputation. The chiefs of Arirular experienced immercus vicinatudes during the Wars of the Carmatic and the government of the Nawih Tuchinopoly District passed into the hands of the East India. Company in 1801, the poligit, or chief, was in receipt of a monthly allowance of Rs 700, the estate being under the management of an agent of the Nawah The sautaders contimied under the management of the Company for some years. the proprietor being allowed one tenth of its net income, but m 1817 he obtained a sense (title deed) for the village m which he resided and a number of others adjoining it, the annual value of which was equal to one tenth of the gross revenue of the estate, and he was required to pay a serkhark of about Rs 1,000 The samuadars are Vanniyas by caste, and originally held the estate as arasukavalgiles or 'heada of police. The property has since been dismembered into seventeen portions, as a result of civil court sales held to discharge the debts incurred by its owners. Anyalur has a particularly fine market, which is regarded as one of the best m Southern Incha. A large temple of comparatively recent date, about 4 miles from the town, 15 a sort of local Lourdes, devout Hindus taking their tick to it in the hope that their cure will be effected at the hands of the founder of the temple.

French Rock —A little rock in Trichinopoly tillule and District, Madras, intuited in 10° 49' N and 78° 43 E, about a mile to the east of Trichinopoly Crry, and to the north of the Tanjore road at the point where it is crossed by the Uyyakondan channel. It has two prominences with a saidle between. In the siege of Trichinopoly by Chanda Salub and the French in 1751, the latter occupied the rock and mounted on it two 18-pounders, hence its name. The guns were, however, at too great a distance to make any impression on

the walls of the fort. Some time after (April 1752) the French abandoned for a time all their posts to the south of the Canvery, except Tiruvarambur (Erumbuswaram). In 1753 Major Lawrence pitched his camp a little to the south-east of the French Rock in order to facilitate a junction with the reinforcements expected from Madras. The remains of the redoubt which protected the left of his camp are still to be seen, about 300 yards north of the railway and 1½ miles north east of the Golden (or Sugar loaf) Rock. After the arrival of these reinforcements the battle of the Sugar loaf Rock was fought (September 21, 1753), in which the French and Mysore forces were utterly defeated. In the Central jail at Trichinopoly are two old battered guns one still spiked, which are supposed to have been taken in this fight.

Ganguikondapuram - Village in the Udayarpulariam table of Inchmopoly Dustrict, Madras satuated in 11° 12 V and 79° 28 E about 6 miles east of Jeyamkondacholapuram, the head quarters of the talks and 1 mile west of the trunk road from Madras to Kumbakonam. It is now in unimportant agricultural village with a population (1901) of only \$,702, but historically and archaeologically it is one of the most interesting places in the District. The name as now spelt means literally the 'city visited by the Ganges and is popularly derived from a well in the temple which according to tradition is connected by underground ways with the Ganges. The story is that Banasum having been duabled from going to the Ganges for his bath. Siva made the river appear in this well and thus enabled the demon to obtain silvation. The name, however, is quite certainly a contraction of Gangukondacholapurum, the city founded by Gangaikond's Chola (the Chola who conquered the country round the Ganges) thus surname having been borne by Rajendra Chola I. The city, of which the remains still he scattered in the neighbourhood, was the residence of the Chola kings from Rajendra Chola I to Kulottonen I, a D 1011-2 to 1118

The most prominent object in the ruins is the great temple which resembles in many respects the famous shrine of Tanjore Bushop Caldwell thought this latter was probably copied from it, but the present behef is that it was founded by Rayaraja, the father of Rajendra Chola I, who was also the founder of the Tanjore temple, and that therefore the two buildings were both erected about the same time. The temple consists of one large enclosure, measuring 584 feet by 37s. This was evidently once well fortified by a strong surrounding wall with a two-

storeyed colounade all round and bastions at each comer. In 1856, however, the bastions were almost entirely destroyed and most of the wall removed, to provide materials for the Lower Anicut across the Coleroon which was then under construction The wall is being gradually rebuilt and there are traces of three bastions, one at each end of the eastern wall and another in the centre of the west wall. The remains of two other bustions in front of the temple are said to be buried in the debris of the general (tower) over the custers entrance, which is now almost completely in ruins gopuram was evidently once a very fine structure, being built entirely of stone except at the very top, whereas in almost every other case all but the lowest storey of such towers consists of brick and planter. The ruins of six other geturesu are said to have once existed, but there is now no trace of them. The sumans or shrine in the centre of the courtyard strikes the eye from a great distance. The pyramidal tower above it reaches the great height of 174 feet. All the lower part is covered with inscriptions. They relate chiefly to grants to the temple made in the reigns of Ko Rapa-kesan varma Udanyar, Sri Vira. Rajendra Deva, Kulottunga Chola Deva, Kulasekhara Deva and Viktama Pāndya Deva. One grant was made by Sundara Pandya in the second year of his reign, and another inscription which is imperfect probably refers to the Vijayanagar dynasty. There were a large number of manispens (balls) and small buildings all round the most side of the enclosing wall, but most of these have been pulled down and the materials corned off, and the rest are in ruins. Among them is a round well about 27 feet in diameter, down to which leads a flight of steps surmounted by a figure of a bage dragon (pāli), but up, as a tablet shows, by the samuador of Udanyarpalasyam dragon is perhaps the most striking figure in the temple precincts. It may be described as a cut like sphinx steps to the well pass between its fore legs. There is also a bull, much resembling the famous one in the Tanjore temple. It is so placed that, when the doors of the shrine are open, it can contemplate the idol at the end of a long dark coundor. The curving on the purers is very fine, and includes all the principal Squite Scines, &c. The boldness and the spent of the chief figures and the absence of growness in the representations bring to mind the old Jam temple, said to be of the fifth or such century, at Conjecverum. These two buildings and the celebrated shrine at Tanjore are perhaps the only important meanices in the Presidency in which the design

culmmates in the tower over the central shrine. The architectural superiority of this method of design over the later temples, of which that at Madura may be taken as a type, is obvious

About a mile to the west of the temple an embankment of great strength runs north and south for 16 miles. It is provided with several substantial alunces, and in former times must have formed one of the largest reservoirs in India. This huge tank or lake, called Ponners, was partly filled by a channel from the Coleroon, upward of 60 miles in length, which entered it at its southern end, and partly by a smaller channel from the Vellar, which entered it on the north. Traces of both these still remain. The tank is now in runs and has been useless for many years, and the bed is almost wholly overgrown with high and thick jungle, except in portions of the foreshore which have been assigned for cultivation. A scheme for the restoration of this gigantic work and for supplying it by a channel from the Upper Anicut across the Cauvery has been recently investigated and abundoned

Traces of many ancient buildings still exist round about Gangaikondapuram, and their foundations are often quarried for bricks, some of which are 15 inches long by 8 wide and 4 deep. In a quarry now open have been found ashes, bricks, and concrete with burnt iron nails imbedded in the man, showing that the buildings they once formed must have been destroyed by fire. The destruction of the city and tank was probably the act of an invading army. Local names still indicate the disposition of the several parts of the city such as Mahgamedu, the site of the 'royal residence', Edukattu, the 'middle structure', Ulkotta, the 'hindmost structure', Yuddhapallam, 'battle field', Ayudakalayan, 'arsenal', Palli vadar, the 'suburb occupied by the cultivators', Palalmedu, 'vegetable garden', Meykävalteru, the 'street occupied by kevalgers' (watchmen), Chunnambukuh, 'hmekilna', Totti kulam, a 'pond where cattle were watered', kalamkulam, a 'pond in which nee-washings were allowed to stagnate to be drunk by the cattle', and Vann'inkuli, the 'washerman's pond;

Pachaintalaus ('green hills')—A hill range on the borders of Trichinopoly and Salam Duttict, Madraa, lying between 11° 9 and 11° 29' N and 78° 31' and 78° 51 E, due north of Trichinopoly city. Their total area is 177 square miles, of which 105 are in the Musin and Perambalur takekr of Trichinopoly and the rest in the Atur takek of Salam. They attam a height of 2,500 feet above the level of the soa, and their greatest length

from north to south a about so miles. In shape the range has a slight resemblance to an hour-glass, being nearly cut in two by raymes of great axe and depth opening to the north east and south west. Of the two parts into which it is thus divided, the north eastern is the larger and has a generally higher level than the south-eastern. A striking characteristic of the range is the great steepness of the western slopes as compared with those on the east, which latter are rarely precipitous and are broken by several long spurs which project far into the low country. The chimate of the Pachaimalais is notonously malarious.

The 'reserved' forests on the hills cover an area of 80 square miles, and consist largely of units (Albistic amare), tenges (Piercarpus Marsupaus), teak, blackwood (Dalbergia latifalia), sandal-wood, and bamboos. The minor products of the hills are myrabolams (Terminalia Chebula), vembalampatics (Ventilago madraspatena), a bank from which a red dye is extracted, the fruit of the hill goodeberry (Rhedemyrtus tementesa), and honey. The only large game on the range are a few leopards and bears.

The inhabited portion is entirely in the Musin tähik. This comprises 3 villages, Vannadu, Tambaranadu, and Komhai, containing in the aggregate 68 hamlets and 6,529 inhabitants i he people call themselves Kanchi Vellalia, and say they migrated to these hills from Conjecverum (compare the account of the Malanyalia on the Shevaroy Hills) at the time of a severe famine. The crops they cultivate do not differ materially from those grown on the plants. There is no 'wet' cultivation, but an unirrigated variety of rice is raised. The jack tree (Armens for materials) is also extensively grown.

The cultivated land is divided into two classes silvakāds, iand expable of being ploughed, and passibāds, or land which cannot be ploughed and the cultivation of which is carried on by grain being dibbled in among trees and rocks wherever a few feet of soil is to be found. These two kinds of land are assessed at 8 annas and 4 annas respectively per acre. The cadastral survey of the hills is in progress. A forest road runs from the Tursiy in Atur road to the foot of the hills, and thence a bridle path leads to a forest rest house on the plateau, the total length of both being 8 miles.

Samayapuram — Village in the sillak and District of Trichinopoly, Madras, situated in 10° 56′ N. and 78° 45′ E, on the high road to Madras, about 8 miles north of Trichinopoly city Population (1901), 1,213. Adjoining it on the

south is the village of Kamanür (population, 2,026). The ground covered by the two villages is of much historical interest. It is called Samavapuram (Samavaram) in Orme's History and Kamanur in ancient stone inscriptions.

In 1752 when the French army under Law had retroated from the south of the Cauvery to the island of Smannam. Major Lawrence at Clive's suggestion, determined to divide his army into two divisions and to send one of them to the north of Inchmopoly with the view of getting possession of the enemy's posts in that part of the country and intercepting any reinforcements which might be sent from Pondicherty This expedition was entrusted to Circ, who on April 7 took possession of the village of Samsyapuram. There are two temples in this village and in Kannanur about a quarter of a mile apart namely, the Bhojeswara thrine on the west, and the Manamman temple on the east of the old high road leading to Madris, which then run a few hundred yards to the east of the present road. The Europeans and sepoys were placed inside these buildings while the Marathas and Tanjore troops encamped outside. A detachment sent by Dupley. from Pondicherry under D Auteuil reached Uttattur on April 14 and, m order to intercept this body while on the march (live advanced from Samayapuram towards Uttattur, on which D Autem) who had already started for Trichmopoly retraced his steps to the latter village. Clive then fell back on his former position. Law, who was commanding at Surangam heard of Chve's departure but not of his return, and determined to surprise and cut off whatever force might have been left behind by him. With this object he dispatched a force of So Europeans (of whom 40 were English deserters) and 200 sepoys. In the skirmish which ensued, and which is graphically described by Ormo Clive had more than one narrow escape. The French force arrived near the English camp in Samayapuram about midnight, and the English deserters persuaded the native sentries that they had been sent by Major Lawrence to reinforce Clive, and with all their following were allowed to enter the camp. They reached unchallenged the smaller of the two temples. When challenged there they answered by a volley and entered the building putting to the sword evers person they met. Clive who had been akcoung in a neighbouring rest house, thought the firing was that of his own men who had taken some false alarm and fetched soo of the Luropean troops from the other temple On recoming the smaller shrine he found a large body of

acrovs firing at random. Still mustakene them for his own troops he want among them, ordering the firing to cease, unbraiding some for their supposed panic and even striking others. One of the French sopoys recognised that he was Roghsh, and attacked and wounded him in two places with his sword and then run away to the temple. Clive, furnous at this supposed insolence on the part of one of his own men, pursued him to the gate and there, to his great surprise, was accosted by six Frenchmen. With characteristic componire he told the Frenchmen that he had come to offer them terms, and that if they did not accept them he would surround them with his whole force and give them no quarter. Three of the Frenchmen run into the pagoda to carry the intelligence, while the other three surrendered and followed Clive towards the rest house, whither he now hastened with the intention of attacking the sepois there, whom he now knew to be enemes, but they had already discovered the danger of their aituation and marched off. Clive then stormed the temple where he had been challenged by the arx Frenchmen, but the English deserters fought desperately and killed an officer and fifteen men of Clive's force, and the attack was accordingly ordered to cease. At daybreak the officer commanding the French, seeing the danger of his situation, made a sally at the head of his man, but he was received with a heavy fire which killed him and the twelve others who first came out of the mieway The rest ran back into the temple. Clive then advanced into the porch of the gate to parley with the enemy and, weak with loss of blood and fatigue, stood with his back to the wall of the porch learning forward on the shoulders of two sergeants Ine officer of the English deserters conducted himself with great meolence, told Chve in abusive language that he would shoot him, raised his musket and fired. The ball missed Cleve, but the two sergeants fell mortally wounded. The Frenchmen, who had huberto defended the temple with the English deserters, thought it necessary to disevow an outrage which would probably exclude them from any pretentions to querter, and mimediately surrendered.

It appears from an inscription in the Jambukeswaram temple on Srirangum island that the Bhojeswara temple in Samaya puram was founded by a Hoyarla Balkila king, and Kannanur is steelf identified as the site of Vikramapura, the Hoyarla capital in the Choia country in the thirteenth century. The name Bhojeswara is considered to be a corruption of the original Poysaleswara (or Hoyarleswara), which over its origin

to a confusion between the long-forgotten Hoyala king and the better known king Bhoja of the Paramatas in Central India, who never had any connexion with this country. In the Jambuketwaram mecription king Vira Someswara mentions '[the image of] the Lord Poysaleswara which we have set up in Kannantir, elses Vikramapuram', and the south wall of the Kannantir temple bears an inscription of the Hoyala king Vira Ramantitha Deva (son of Someswara) in which the temple is called Poysaleswara, 'the Iswara [temple] of the Poysala [king].' There is also a copperplate educt of Vira Someswara in the Bangalore Museum which was issued on March 1, AD 1253, the day of an eclipse of the sun, 'while [the king] was residing in the great capital named Vikramapura, which had been built in order to amuse his mind in the Chola country, which he had conquered by the power of his arm'

Scirangam. — Town in Trichinopoly District, Madray, situated in 10° 52′ N. and 78° 42′ E, a miles north of Trichinopoly city and almost in the centre of the island formed by the bifurcation of the Cauvery into the two branches known as the Cauvery and the Coleroon. At the western (upper) end of the island is the Upper Anicut, and at the eastern end the Grand Ament, described in the article on the Cauvery. The island is about 19 miles in length, and in its widest part about 1½ miles broad, the soil being alluvial and very fertile. It is, however, subject to mundations from the Cauvery and Coleroon, especially at its lower (eastern) end. The trunk road to Madras runs northwards from Trichinopoly across the island, connecting the land on either side by fine bridges. The island (see Trichinopoly District) played a connectable part in the wars of the eighteenth centur,

Strangam was made a municipality in 1871, and comprises several villages, of which Strangam and Jambukewaram are the most important. The population, which has doubled in the last thirty years, is (1901) 23,039, of whom as many as 22,834 are Hindus, Musalmans numbering only 42, and Christians 163. The menme and expenditure of the municipality during the ten years ending 1902—3 averaged about Rs. 28,000. The meome in 1903—4 was Rs. 33,800, mostly derived from the taxes on land and houses, and the expenditure was Rs. 35,100. The municipality maintains a hospital, which accommodates 24 in patients and has a materiary ward with four beds. The buildings now in use were repaired and terraced by Rājā Sir Savalai Rāmaswāmi Mudaliyār in 1886 at a cost of Rs. 10,000, the former buildings having been

damaged by fire m 1884. Prehimmary surveys for a dramage scheme for the place are in progress

The town is chiefly functia for its great temple dedicated to The temple and the town are nodeed almost con-Vishnu terminous, the greater portion of the houses having been erected made the walls of the former. The temple is the largest in Southern India, and consists of seven enclosures one within the other, the ontermost wall of the seventh measuring 1,024 yards by 840. In the centre of the innermost enclosure us the shripe of Ranganathaswami, who is represented as reclining on the folds of the serpent Adisesia and screened by his bood. The dome over the shrine has been recently repaired and richly gilt. None but Hindus can enter the mner three enclosures. The fourth in which is the thousand pellared management of ball, measures 412 yards by 283. This hall of a thousand columns measures 450 feet by 130 and contains some 440 pillars, being incomplete in parts. It is the Darbar Hall of the deny during the annual Varkunta Ekadrai festival, which takes place in December or January. A large sandal or covered enclosure is then erected in front of it, and the processional image is brought to it from the inner shrine through the northern entrance of the second enclosure, called the Paramapadavasal or the 'gate of heaven,' which is only opened on this one occasion in the year. In booths round the pendal, which is handsomely decorated, various figures of gods and mythical personages and other articles are exposed for sale. In front of the thousand pillared mantapase is a smaller hall, called Seshagan Rao's mantepass in which there are some fine carvings in stone. As usual, the temple possesses many jewels, some of which are good specimens of goldsmith's work. The various paces of armour which cover the idol from head to foot are perhaps the best, the others being of a type familiar at Southern India temples Several of the oldest were given by Vijayaranga Chokkanātha, Naik of Madura. There is also a gold plate presented by the present King Emperor when he visited the place as Prince of Wales in 1875. European vintors, on giving sufficient notice, are generally allowed to see the jewels, or, at any rate, some of them, by the courtery of the trustees

Over the entrances to the fourth enclosure are three gopmanns (towers), of which the eastern is the finest. It

² Deswraps of these and other portions of this isimple and of that at Jambulouweness well be found to the Jenniel of Indian Act and Industry vol. via. (1899).

is known as the veller or 'white' goperase and is 146½ feet in height. There is at present no gate or goperase on the western side of this enclosure. Tradition states that one for merly existed, but that it was blocked up because the people living near used to enter by that way and commit thefts in the temple. The outer three enclosures are crowded with houses and bazars.

Mr Fergusson points to this temple as the most conspicuous illustration of the way in which many South Indian temples have gradually grown up around a small central shrine. The various stages of circumvallation represent successive increases in the wealth and popularity of the shrine, and there is a corresponding increase in the size and ornamentation of the outer buildings as compared with those within. It may be added that the temple does not seem to have been completed in the manner intended by the last of its series of builders. The outer wall contains four unfinished contains. That on the southern side, which is the first seen by visitors from Frichmopoly, is of large proportions and, if completed, would have risen to the height of 300 feet. This unfinished but gigantic structure is perhaps the most impressive object in the whole temple.

Several samts are reputed to have resided here, and the images of some of them are set up in different parts of the enclosure The Hundu reformer and philosopher Ramanuja lived and died here early in the twelfth century macriptions on the walls go back to the first half of the tenth century to the reign of the Chola Ling Maduru Londa ko Parake-arryarman, alias Parantaka I, but the greater portion of the temple can hardly have been constructed as early as this. An inscription of Sundara Pandya recites that he took Surangam from a king who is called the moon of Karnsta, and plundered the capital of Kathaka. A similar incident is recounted in the lirukkahkkunram and Jambukeswaram macriptions. The Käthaka king can hardly refer to a king of Cuttack, the most obvious explination, but probably describes the noted chiefbun Kopperunjinga, who had great power in the Carnatic at this time. The moon of Karnata was the Hoyanla king Somerwara (hiterally the 'god of the moon), who, having conquered the Chola country, built a city called Vikramapuram 5 miles to the north of Strangam. The sile of this city is the present Samayapuram. The Sundara Pandya of the inscription has been identified by a copperplate grant of Someswara dated in 1253, with Jathyarman Sundara

Pandya Deva, who ascended the throne m 1250 or 1251. Other inscriptions relate to the Chola, Pandya, Hoyada, and Vijayanagar dynastics.

About half a mile to the east of the Vishnu pageds is another remarkable temple, dedicated to Siva, and known by the name of Jambuleswaram. It is a compound of the words Jambu, the Sanskrit name of the tree known in Tamil as naval (Eugenia Jambelana), and Iswam, a name of Siva. The image of the deity is placed under a jambu tree, which is much venerated and is said to be several hundred years The image is also known as one of the five elemental hagens, the element m this case being water, which surrounds the August on all sides. Mr l'engusion considers that this building far surpasses the Vishon temple in beauty and as an architectural object, and thinks that, being all of one design, it was probably begun and completed at one time. There are five enclosures in the building. In the third is a coco-nut grove, in which is a small tank and temple, whither the image from the great Vulne pagoda was formerly brought for one day in the year. This practice has been given up, owing to quarrels between Saivites and Vaishnavites. Traces of a wall, which was built in consequence to mark the boundary between Sruangam and Jambukeswaram, are still visible. In the fourth enclosure, which measures 812 yards by 407, is a large hall with 706 pillars, and to the right of it a little tank with a gallery round it in which are 142 columns. The tank is fed by a perpetual spring. The fifth or outer enclosure contains four streets of houses. Inscriptions seem to show that the temple was in existence about A D 1000

Trichinopoly City (Thruchchmappealls) — Head quarters of the District and table of the same name, Madras, situated in 10° 49' ht and 78° 42' E, on the right bank of the Cauvery river, 195 miles from Madras by road and 250 miles by the South Indian Railway. It is the third most populous town in the Presidency. It once held the second place, but at the Census of 1901 Madura outstripped it, although during the decade ending with that year its inhabitants increased by 16 per cent. Out of the total population of 104,721, 76,927 are Hindus, 14,512 Christians, and 13,259 Musilmans. In 1891 its inhabitants numbered 90,609, in 1881, 84,449, and in 1871, 76,530. The fact that it is an important railway sunction has had much to do with its rapid growth.

Trichmopoly is a very ancient place. Popular legend carries its history back beyond the days of the Ramayana. Later,

the capital of the Chola kingdom was once at Urarytir, a suburb of the town which is identified with the "Oodwoo mentioned by the Greek geographer Ptolemy (about AD 130) local Purana or history contains a story of the destruction of Unayur by a shower of sand. There was a flower garden, says the tale, on the Trichmopoly Rock, in which the mage Stramum raised several (chrysenthemum) flowers for the worship of Siva. A gardener stole some of the flowers and presented them to the Chola king Parlintaka daily. When the thaft was discovered and the gardener was arraigned before the king, the latter pardoned him. Sive was very wroth therest, and turned his face towards Uran ir and rained and on it The king and queen fled, and as they ran he was buried in the storm of sand, she fell into the river, but was washed ashore and protected by a Brithman. She gave birth to a son who was afterwards called to the throne, and was identified as the rightful heir by an elephant and was consequently called Kankala. It has been surmised that this account has reference to a Pandyan invasion. The king Parantaka is probably Parantaka II, whose son was Aditya II, alias Karikāla, reigning in the tenth century

Inscriptions have been found in the Srivangam and Jambukeswaram temples which show that as late as the fifteenth and systeenth centuries descendants of the Chola dynasty reigned at Unityur as vassals of Vijayanagar. In the thirteenth century the Hoysala dynasty appears to have held sway here for a time, with its provincial capital at Samayapuram. The Mussimans succeeded in the fourteenth century, and then the Vipayanagur dynasty. During the rule of the Naiks of Madura, Trichinopoly was an important place and for some time their capital. The founder of that dynasty, Viswanstha Naik, is supposed to have fortified the town and constructed the Teppakulam reservoir. One of his successors, Chokka natha, erected the building known as the Nawab's Palace, obtaining the necessary materials by demolishing portions of the famous Trumals Naik's palace at Madura. The build mg is also known as Mangammal a Palace after the Naik queen of that name

In the Wars of the Carnatic, Trichinopoly (see Trichino POLY DISTRICT) was the scene of frequent hostilities between the English and the French. After the country was ceded to the Company it continued for many years to be an important military station. Troops were first stationed within the fort, next at Uraiyin, and subsequently in the present

cantonment The cantonment was formerly garrisoned by European and native regiments, but in 1878, when the Afghān War broke out, the whole of the European contingent was removed and the garrison subsequently reduced to two regiments of native infantry. At present it consists of one regiment and a part of another. The fort is rectangular, measuring about a mile by half a mile, and was originally surrounded by ramparts and a ditch, but the walls have now been levelled and the ditch filled in. The streets in this part of the town are narrow but fairly regularly laid out

Trichingpoly was constituted a municipality in 1866 municipal kings include the contonnent and the fort as well as several other revenue villages. The municipal council consists of 24 members, of whom 8 are elected and 15 nominated by Government, one of the latter being a military officer to represent the cuntonment. The divisional officer is ex office a councillor. The income averages about Rs 1,50 000, and latterly the expenditure has exceeded the receipts, in consequence of the outlay incurred from borrowed money on the water supply scheme. In 1903-4 the income amounted to Rs. 1,91,600, chiefly derived from the taxes on land and houses, and the expenditure was approximately equal to it. The water-works have cost about 8 lakhs, and loans were raised to the amount of Rs 3,89,500. The supply is derived from wells and filter beds laid in the bed of the Cauvery nearly a mile above the city, and the water is pumped up by steam and conducted into the city by piper. The mtroduction of the supply has had a marked effect on the public health, and has practically abolished cholers, which was formerly the scourge of the place. The works are, however, hable to severe damage when the Cauvery is in flood, sometimes necessitating a return to the old fainted sources of supply. The problem of rendering them strong enough to resist floods is still under consideration, meanwhile the necessity for continued repairs is a severe drain on municipal revenues.

The most interesting object in the city is the famous Rock. It stands within the fort, rung sheer from the plain to a height of 273 feet above the level of the streets at its foot. The ascent is by a covered stone stances, the entrance to which is on the south side. On each side of the gareway are stone figures of elephants, and the passage itself is bried with pillars with curved capitals. At the head of the first flight of steps a street runs completely round the Rock, by the side of which

houses have been built. It is used for religious processions, and a connected with the street round the foot of the Rock on the eastern side. From the street opens a hall, on the left of which is a small shrifte to Ganesa. A second series of steps leads out of this hall through an exit ornamented with statues of charactelakas ('gatekeepers') on each wdo ascending these, a second landing is reached, on each side of which is a large hundred pillured mestapes or hall that on the left being used twice a year for the reception of the idol belonging to the main temple More steps lead to a third landing, to the left of which is a small room for the temple records and in front another shrine to Ganesa. The ascent now turns sharply to the left and then to the right, terminating on a fourth landing giving access to the main temple. None but high caste. Hindus may enter this, but a view of a portion of the antechamber can be obtained from the landing. The steps now emerge into the open air. passing on the left a chamber hearn out of the rock and covered with Sanskrit inscriptions. This chamber was used as a magazine by the British during the siege, and has recently been opened out. The carvings appear to be of Buddhist origin, and are probably not later than the fifth or sixth century. Two short flights lead to a building to which the temple delty is taken once a year, and to a platform on the shoulder of the Rock, whence the top is reached by a final series of steps which are cut in the face of the Rock. On the top is a third small shrine dedicated to Ganesa. This is surrounded by a galler, from which a fine view of the fort, the town, the Cauvery, Strrangum island, and the adjacent country is obtained. At a corner of this gallery, overlook ing the great temple, a narrow door leads on to a small platform from which a view is obtained of the kalasam or golden covering over the central ahrme of the temple Beneath can be seen, aculptured in relief on the surface of the Rock, two footprints which Hindus believe to have been made by Vibhahana, the brother of Ravana and the ally of Rama. The Musclimans, however, claim the footprints as those of the saint Nadir Shah Aulya, who took up his residence on the Rock but was ejected by the god of the place

At the foot of the Rock, on the north eastern wide, is a row of low buildings with semicircular arched roofs, said to be old bomb-proof barracks, and farther to the east a portion of the former outworks of the fort, the line of the walls being indicated

by the open space surrounding the town. A representation of the Rock is sculptured on a tablet to Major Lawrence in Westminster Abbey. The deity in the main temple on the Rock is called Matrubutheswara in Sanskrit and Tayumanavar in Tanul, from his having assumed the guise of a mother to attend on a helpless woman in childhed, her mother baving been detained by floods on the other side of the Cauvery When the floods submided, the mother came across, and the woman and her husband were much pussled as to who her double could have been. Siva then appeared in his real form and blessed them. This curious legend, and also that of Stramuni, are painted panoramically on the inner wall of the temple.

Near the foot of the Rock is the Teppakulam, a large masonry tank or reservoir with a small but graceful management in the centre. Overlooking it at the south west corner is the main guard gate, a substantial piece of masonry, from the top of which is the best view of the Rock as a whole. Distinguished visitors to the town are entertained by being taken to this point to see the Rock and the great tank outlined with thousands of lamps, an impressive scene. The place was similarly illuminated at the two jubilees of the late Queen Empress and on Corona tion Day.

The Nawab's Palace, a part of which is now used as a town hall and part as public offices, is situated close to the Rock The portion used as the town hall was formerly the audience hall, and is a fine building of plain and massive architecture, surmounted by an octagonal dome and surrounded with colon nades. These last are perhaps, however, rather too squat to make an effective base for the dome. In front of the Nawab's Palace is the Coronation Garden, with the Wenlock Fountain within

Overlooking the Teppakulam at its south east corner is a house once the residence of Clive, which is now occupied by St Joseph's College. To the north west of the Rock is Christ Church, founded by the famous missionary Swarts. His house is close by Near the Fort railway station is what is known as Chanda Sahib's tomb. It is in the Nadir Shah mosque, wherein are buried the remains of Nadir Shah Auliya, a saint who is reputed to have come here from Constantinople, and of one of his disciples, a lady. The railings round the tomb are pierced metal work of a curious design. The building appears to have been constructed from the materials of Hindu temples, the head of a hagain having been converted into a lamp post

The entrance ball to the mosque is clearly an old Hindu managers left almost in its original state. Chanda Sahib built the dome over the edifice and his remains are interred close to the building, while the remains of his rival Muhammad Ah and of the members of his family are in the veranda and in a room attached thereto. There are Persian inscriptions on the walls of this building and of the mosque.

Besides the water-supply, the municipal council has built for the city a market in the fort and a hospital to the south of it. In front of the market are a clock tower, the Diamond Jubilee Park, and the arch erected in commemoration of the visit of the present King Emperor when Prince of Wales. The hospital has an endowment of Rs. 12 000 raised by public subscription in 1863, and also receives an annual grant of Rs. 4,500 from the District board. It has a maternity ward, a ward for high caste patients and a dispensing room for women and children, under the charge of a lady apothecary trained by Lady Dufferm a Fund.

Trichmopoly is one of the great educational centres in the south of the Prendency It contains two first grade colleges, maintained by the Jennit Mission and the Society for the Propagation of the Gospel The former, known as St Joseph s College, was originally established at Negapatam in 1844 and was removed to Inchmopoly in 1883. The present building was opened in 1886. The Catnobic cathedral, a fine edifice, has been recently completed. Attached to the institution is a large boarding house for native Catholic students, as well as lodgings for Brahman and high caste Hindus and hostels within the college compound. The S.P.G. College, which is a development of various schools founded by Swartz, was raused to a first grade college in 1883. There is a hostel for Hindu students upon the college premues, and hard by is another bearing the name of Bushop Caldwell and intended mainly for Christian students from Tinnevelly The proselytizing activity of the Jesuit Mussion led to the establishment in 1886 of the National high school in the interests of the Hindu community

Turniyur—I own in the Munn table of Inchmopoly District, Madras, situated in 11° 10 N and 78° 36 E. It has a population (1901) of 12,870 and is a rapidly growing place, containing the head quarters of a deputy tablellar and submagnitude, and being the chief town of the samendars of the same name. It is picturesquely situated near the Pachamalas Hills, and not far from the Kollamalas in Salem. The most noticeable objects in the town are the large reservoir with stone

steps and parapet walls, on which the floating festival is held, the god being taken round it on a raft, and the irrigation reservoir close by, in the centre of which is a curious building, three storeys high, in which the saminate used formerly to spend short periods when the reservoir was full of water. The building is now out of repair and rapidly falling into ruins, which is unfortunate, at it is a picturesque example of a semi-Moorish style of architecture.

The Turnsylle samuelers has had a very chequered cureer, which is typical of the fortunes of many similar properties in Southern India During the nege of Trichmopoly in 1752 a detachment of the Mysore army assisted by some French troops overran the estate, deposed the reigning chieftam, and put one of his courses in his place. In 1755, this new chief having neglected to pay his tribute, a detachment of French troops and sepoys from Pondicaterry took the town, deposed him, and reinstated his predecessor. In 1756, however, the samundar again failed to pay his tribute and was accordingly deposed by the French, his immediate predecessor taking his place In 1758 Captain Calhaud sent a detachment under Captain Smith to restore the chief whom the French had lest expelled, as he was befriended by the chiefs of Anyalur and Udarvärpälaryam, who had always been butter opponents of the French Turaryur was captured after some spirited skirimsh mg m the woods which then surrounded the place. The expelled chief was again remetated and five companies of sepoys were left to protect him. The chief who had been ejected by Captain Smith escaped to Mysore When, however, at the end of 1758, some of the troops had to be withdrawn from Furniyar, he took advantage of the opportunity to capture the town He then submitted to the Nawib, who confirmed hom on the possession of the estate. In 1773 the Turniyur chief quarrelled with his son, who, fearing that his father had a design on his life, left the country and proceeded to Madras to tay his case before the Nawab I he Nawah took the opportunity of raising the tribute, and in the competition between father and son it was enhanced from 14 to 24 lakes in twenty years. In 1795, however, the father and the son became reconciled, and, seeing that they could not popully meet the Nawab's demands, left the country and took refuge in Tanjore, where the former died. In 1796 the son collected a number of men and laid the estate waste. Eventually an agreement was come to between him and the Nawib, by which he retired to Tanjore on a monthly allowance of Rs. 1,000,

with power to levy an assessment on the inhabitants of Turarytir not exceeding at per cent of the amount of revenue collected by the state. This arrangement continued in force till the assignment of the Carnatic to the Company. As a preliminary step to the grant of a issued (title deed) to the chief, the estate was placed under the management of the Collector with a view to ascertain its income, and the chief was allowed to per cent of its net revenue. In 1816 it was decided that he should not be restored to the possession of the entire estate, but should receive only the village in which he lived together with a number of other surrounding villages of an annual value equal to to per cent of the gross collections. For this he paid the nominal perkhark of Rs. 700. A sexual was issued to him in 1817. The family is of the Reddi caste and of Telugu extraction. The sexual was recently been declared impartible.

Udaryarpalaryam Town,—I own in the talks of the same name in Trichinopoly Dustrict, Madras, attrated in 11° 11 N and 79° 18 E Population in 1901, 7,553, compared with 7,739 in 1891 and 5,703 in 1881. The town is the place of residence of the samendar of the same name, and the drop in the population in 1901 was due to his being absent, with a considerable following, at the time of the Census. samuadar is of the \anning caste, and his ancestors held the estate as aresu kāpalgars or 'heads of police'. Like so many other number chiefs, they experienced many vicusatudes of fortune during the wars of the eighteenth century and the rule of the Nawib of the Camatic At the time when Trichinopoly District was handed over to the East India Company in 1801. the semendar was m recept of a monthly allowance of Rs 1,000. and the estate was under the management of an agent of the In 1817 the British Government restored to him a portion of the estate, the annual value of which was equal to 10 per cent of the gross revenue, required him to pay a nominal perhitush of Rs. 640, and gave him a susual (title deed) samundars has recently been declared impartible

The palace of the Udanyirpilaryum usuandar is a remarkable building. It is very dispidated in parts, and some incongruous new portions have been added, but even with these defects it contains decorative work which has been thought to be among the finest in Southern India. It looks like work of the seven teenth century, is executed in rather soft stone, and was probably designed under Muhammadan influence. There is a polygonal watch tower and some balustrade work on the outside, but the interior is the finest part. One of the big balls is in general

design something after the fashion of Thrumala Nauk's famous hall in Madura, but the spandrels of the arches are one mass of carving of birds, flowers, &c., showing fancy and spirit, while the arches themselves are worked out in tracery, with a niche above each column containing some god or saint. Above the level of the spandrels is a deep coloniade running round the whole hall, corresponding to the clerestory of an English cathedral, also one mass of spirited carving in relief. Some equally fine woodwork is said to exist within the palace. The building deserves careful study from an historical and architectural point of view.

Uyyakondāntirumalai —Village in the tāhd and Dutrict of Trichmopoly, Madras, satuated in 10° 49 N and 78° 37' E, about three miles west of Trichmopoly city Population (1901), 1,550 It possesses an ancient temple, containing many old mecrytoos, built on a small rock about 30 feet high which was once fortified. The peculiarity of the fortification is that the rock a surmounted by a circular bastion, the raised terrace of which supports the temple buildings. The rock is enclosed by a square stone wall carned up as high as the rock strelf, and built thick enough to afford a rampart mude, about 5 feet in breadth, with a slender parapet with loopholes to fire through An outer court is surrounded by walls nearly as high as those of the mner line, and the entire enclosure measures 200 yards The bastion is in good condition, but the wall is becoming dilapidated in parts. Marks of carmon balls are vanible on the eastern face.

Being so close to Trichinopoly this fortified temple was a point of strategic importance in the multipry operations of 1753, being occupied in turn by each of the forces engaged The hutonen Orme calls the place Wescondah. When the Mysore army, assisted by the French, were blockading Trichi nopoly on every side, Captum Dalton undermined the temple and fort one dark night, and tried to blow it up in order to depute the enemy of the use of it while the English garrison. was engaged in the fort. But the explosion was not successful. and the Mysore army, finding that the fortifications had been but little injured, took possession of them. Captain Dalton surprised the Mysore army by another night attack, marching close to their tents and making a general discharge among them before being challenged. The English sepays secred some of the garmon's horses and arms, and the party effected a retreat before the enemy were sufficiently roused to do more than fire a few shots at random. On August 23, 1753.

Major Lawrence attacked the enemy at Uyyakondinturumalar, where they had entrenched themselves in a strong position, and compelled them to retreat in disorder. The English took possession of the place, but Major Lawrence had to abandon it almost immediately. It was then seized by the French. Immediately after the battle of the Sogar-losf Rock (September 21) Major Lawrence marched against it and carried it by assault. In the course of this action a sergeant of a company of sepoys distinguished himself by clambering over the gate on the shoulders of one of his men.

MADURA DISTRICT

Madera District (Madera:)—A Dutrict in the southern portion of the cast coast of the Madras Presidency, lying between 9° 6' and 10° 49' N and 77° 11' and 79° 19' E, with an area of 8,701 square miles. It consists of a section of the plain stretching from the eastern slope of the mountain range of the Western Grans to the sea, and includes the drainage basm of the Valual river. Part of its south western and western border abuts on the Western Ghitts, here known as the Travancore Hills, which divide the District from the Native State of Travancore, and the north western boundary runs over the highland plateau which separates two other sections of the same range, the ANADIALAM and the PALMI Hittis, from one another. The Palnus he wholly within the limits of the District and are its most notable mountains the north Madura is bounded by the Districts of Combatore and Trichmopoly and the Native State of Pudukkotta; on the north-east by Tanyore; on the east and south east by the waters of Palk Strait and the Gulf or Manaar, and on the south and south-west by Timpevelly District

Its general aspect is that of a level plain, sloping graditally to the sea on the south east and busected by the channel of the Valgat river. To the west this plain is broken by the Paliti Hills and other smaller spurs and outliers of the Western Ghāta, and by soluted hills and masses of rock scattered throughout. The Palms project across this part in an east north-easterly direction for a distance of 54 miles, and are about 15 miles wide on an average. To the south, and almost parallel with these, the Varushanad Hills and the Androatti range also run out from the Western Ghais in a north-easterly direction. They extend for a distance of 40 miles, and between them and the Palms has the upper portion of the valley of the Vagas, known as the Kambam Valley. This is kept well wooded and green by the perennial streams which flow down into at from the slopes of the adjoining hills, and, except in the feversh season, it is one of the pleasantest parts of the District. Farther east, and altogether separate from the ranges already described, as a confused sense of smaller lines of hills, known

respectively as the Sirumalaus, the Karandamalaus, the Nattam, and the Alagar hills. The highest peak among these attams an elevation of nearly 4,400 feet. On the Sirumalaus fruit is largely grown and there are several coffee estates, but the range is almost uninhabited on account of the mahgnant fever which lurks in its alopes. Among isolated hills may be mentioned the ancient rock fortress of Districtly, the Anaimalau ("cow hill"), and the Skandamalau secred to the god Subrahmanya. The last three are in the neighbourhood of MADURA CITY, the head quarters of the District

The river system of the District is of a simple character The principal stream is the Vaigni already mentioned, which has its origin in the Varushanad Hills. Near the village of Shokwandan this bends to the south east, and thence flows right across the centre of the District and empties riself into the sea at Attankaras cast of RAMMAD Next in importance are the Gundar and the Varshales. The former uses in the Varushanad and Andmatti hills and flows in a direction nearly parallel to the Vaire. At Kamudi it is crossed by a massive carthen dam, and a channel is taken off which irrigates part of the Mudukulattur takul. The Varahales drame the eastern slope of the Nattam Hills, flows past TIRUPPATTUR, and enters the sea by several mouths between Unjur and Tonda northern slopes of the Palnus are drained by a lesser system of rivers, which flow northwards in almost parallel courses principal of these are the Americani, the Shanmukhanadi, the Nangani, and the Kodavanar. All of them are dramage channels rather than perennul rivers. In the many season they come down m headlong torrents, but for most of the year they dwindle into trickling streams.

The rocks of Madam District consist chiefly of foliated (biotite gness, probably in reality a gnessore grante, in which are masses of granular quartz rock, also probably of igneous origin. At certain localities, such as Pandalugudi and Tirumal, bands of coarsely crystalline limestone occur in the gness. Charnochite is found in the western part of the District, the Palm Hills being entirely composed of that sock. In the Varushanild Hills are hornblende schists and granulates, penetrated by vesus of mich bearing pagmatits. Sub-recent calcine grits of marine origin form a fringe along the coast from Cape Company to the channel between the mainland and the saland of Pamban. Laterite covers a considerable part of the District. Further particulars will be found in Mr. Bruce.

Foote's account in the Memoirs of the Geological Survey of India, vol ax

The botany of the central portion of the District presents no points of special interest. Along the coast occur areas covered with the red sand wastes (terus), which are so extensive in Tennevelly, and with brackish swamps. These exhibit the flora characteristic of such tracts. The most interesting region botanically is the Palm range. Dr. Wight visited this in 1836 and recorded his observations in the Madras Journal of Leterature and Science the next year. He mays that in the course of about fifteen days he collected little short of 1,500 species of plants, and he thought that the flora of the hills would be found on examination to include almost four fifths of the whole flora of the Presidency and to present a vast number of species peculiar to the locality. In the same journal for 1858, Colonel Beddome published a list of more than 700 species of plants (exclusive of Composites, Grammene, and Cryptogams not determined) which he found on this range It is thus evident that the locality is well worthy of detailed evamination by hotemats

The hills to the west contain all the larger game usually found in such localities namely, tiger, leopard, bear, elephant, buson (gaur), Nilgiri thex sämbar, and spotted deer. The opening up of neighbouring areas to the planting of coffee and the ravages of wild dogs and native shikarii are, however, reducing the game. In the plant country antelope are common, especially towards the sea.

The climate is hot, dry, and variable. There is no real cold season in the plains, but the air is pleasantly cool from November to February. The mean annual temperature at Madura city is 84°, compared with 83° at Madras. It is considerably less on the island of Pamban, at places like Dandigul, and in the Kambasa Valley. The climate of the upper Palmis is probably one of the finest in India, resembling that of the Nilgiris. The District is not regarded by the natives as healthy, on account of the prevalence of malarist fever.

The annual ramfall of the District as a whole, omitting the Palms, usually varies from s6 to 36 miches, averaging about 30 miches. Of this more than half is registered during the north east monsoon in the last three months of the year, about one fourth during the four months of the south west monsoon from June to September, and only one-seventh during April and May. The distribution, however, varies very considerably in different parts of the District, especially during the south-

west and north-east monacons. During the first three months of the year, for example, the heaviest rain is to be expected along the sea coast and among the hills that enclose the valleys in the west. The early showers of April and May are usually fairly abundant in the latter tract, while they decrease in amount eastwards and towards Tinnevelly. In the south west monacon the only portion of the District which usually receives a fair supply is the centre. During the north east monacon the rainfall on the coast in the Rāmnān Estate is very heavy, and over the rest of the District is considerable. Speaking generally, the supply is much below the average only in the part adjoining Tinnevelly, while in the central and eastern parts it is above the normal.

The famines from which the District has suffered are referred to below. Other natural calamities have been few. The worst were a cyclone in 1709, which did great damage, and the floods which followed the 1877 famine in the Ramnad estate. In December, 1877, the Gundâr river rose to a great height and flooded parts of Tiruchuli village, swept away a thousand yards of the embankment near Kamudi lower down, and then made for the sea, breaching nearly every tank in the south west of the samundars and covering the whole country with one broad sheet of water.

Perhaps no District in the Presidency can boast of a more I continuous ancient history than Madure. Together with Tinne velly and portions of Travancore State and Trachmopoly, it formed the dominion of the Pandyas, who are said to have taken their name from Pandu, the father of the Pandava brothers, the heroes of the Mahibharata War, and whose king dom is known to have existed 300 years before the beginning of the Chrustian era. About the tenth century and, as is attested by numerous inscriptions and coins, the country passed under the Cholas, but it reverted to the Pandyas some 300 years later. In 1310, like the rest of South India, it was raided by Mahk Kafur, the general of Alauddin of Delhi, but shortly afterwards, in 1372, the Muhammadans were driven out by the kings of Vijayanagar, who had just begun to establish themselves in power. Thereafter, for nearly 200 years, the history of the country is fragmentary and confused until, in the middle of the sixteenth century, the famous Naik dynasty of Madura came into prominence and ruled for 200 years. Viswanātha Naik, the founder of this line, was apparently the son of an officer of the Vnavanagar kings. He is said to have fortified Madura, bought Trichinopoly from the

king of Tanjore, and quelled a formulable rebellion in Transvelly. He kept the local chaeftains contented and the country quiet by founding in Madura and Tinnevelly what was afterwards known as the policier system, under which the direct government of his possessions was entrusted to local chieftains, called policier, whose powers were almost absolute in their own distincts so long as they paid their surerain a certain tribute and provided a stated ministry force for service when called upon. These policier figured largely in subsequent history, and some of their descendants are still seminators of their original grants.

The greatest of the Nask dynasty was the famous Tirumals, the remains of whose buildings, especially his palace, the most splended of its kind in Southern India, attest the magnificence of his tastes. Besides the present District of Madura, his territories compared Tinnevelly, Trichmopoly (including Pudukkottai State), Salem, Combatore, and a portion of the State of Travancore. His gross revenue is said to have exceeded a milhon stering. He had a leaning towards Christianity, and during his reign Robert de Nobili, the famous Jesnit, with his direct countenance and assistance, founded an important mission in Madura and made many converts.

On Tirumala's death in 1659 the kingdom began to break up. Her successors were weak rulers; Muhammadan intrigues and myasions commenced; Swajt, the founder of the Maratha power in India, began his raid to the south; and Chikka Deva Raja, king of the mang dynasty of Mysore, invaded Madura and soon after invested Trichinopoly. The one redeeming feature of this period of confusion and anarchy was the regency of queen Mangammal, the most remarkable personage, next to Tirumala, in Madura history. The roads and avenues which she made and the choultness and temples which she built keep her name in grateful remembrance to this day.

Meanwhile the Nawahs of Arcor had become powerful enough to attack the south, and Chanda Salub, son-in-law and chief minuter of the Nawab, Dost Alt, obtained Trichinopoly by cunning and Madura by force. The Nauk ruler of the time thereupon called in the aid of the Marathas of Satura in Bombay; and in 1739 they marched south, defeated and killed Dost Alt at the Pass of Damalcheruvu between North Arcot and Cuddapah, levied an enormous indemnity from his son, captured and carried off Chanda Salub to Satura, oversan Madura and Trichinopoly and put Marathas governors

in charge of both of them. This is the last scene in the history of the Madura kingdom. Henceforth it was split up into a number of small principalities which had no connected existence.

In 1743 the Sübahdar of the Deccan drove out the Marathas, and the country again came nominally under the rule of the Nawabs of Arcot Twelve years later, the English first appeared upon the scene. Major Heron marched south to force Madura and Tinnevelly to acknowledge the Nawab, Muhammad Alt, the Company's chief motive in sending him being the expectation that the tribute the Nawab would thus obtain would help him to repay the money he owed for senstance in the Carnatic Wars. Little registance was met with, and Madura and Tinnevelly Districts were taken and were rented for 15 kakha to Mahfitz Khān, the Nawah's brother. The disorderly behaviour of the selecter and the Kallana (the Colleres of Orme) prevented him, however, from realizing his dues, and the Company therefore sent Muhammad Yusuf, its commandant of sepoys, to same him. The latter restored order to some extent, but in his turn rebelled, and was accordingly attacked by the Company's troops and taken and hanged in 1764. Anarchy and confusion once more followed, until in 1783 Colonel Fullation marched into the country with a considerable force and finally quieted it. In 1790 the first Ragish Collector of Dandagal was appointed, and in 1801 the rest of Madura was ceded to the Company in accordance with the treaty of that year with the Nawab of Arcot.

The subdivision of Dindigul, which had for long been part of the possessions of the langdom of Mysore, had been previously (in 1790) acquired by conquest from Tipu Sultan. The bistory of the samuelders of Ramaan and Sivaganga, of which a sketch is given in the article on the former, also differs somewhat from that of the District proper. From the beginning of the nineteenth century the political history of Madura as it now stands merges into the story of revenue administration described below.

On the Palms are found a large number of prehistoric, dolmens or burnal caims. Evidence of a reliable nature shows I that Greek and Roman soldiers served under the Pandya kings, and from the fact that Roman come have been found in large numbers in the bed of the Vaigai, it is inferred that a colony of Roman merchants may have settled on its banks. A large number of coins with Buddhist symbols and devices also attest the prevalence of Buddhism in the Pandya country. The famous Siva temple of Madura, the celebrated palace of

Tirumals Nauk at the same town, and the great temple at RIMESWARAM are the chief objects of archaeological interest. These are described in the separate articles on those places

The towns in the District number at and the villages 4,113. The population in 1871 was 3,266,615, in 1881, 2,168,680, in 1891, 2,668 404, and in 1901, 2 831,280. The decline in 1881 was due to the great famine of 1876-8, when the whole District, except the Meltir and Penyakulam talaks, suffered severely. It is divided into the seven Government talaks of Kodaikānal, Palni, Dindigul, Penyakulam, Madura, Melur, and Trumangalam, the head-quarters of which are at the places from which they are respectively named, and the two great samustairs of Rammad and Sivaganga. Statistical particulars of these areas, according to the Census of 1901, are appended.—

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Madakulattir		3	399	146,345		+ 8 1	9,143
Stragange	\$1,680	1	g 20	I £15.909	1235	+ 64	14,256
Tumppetter		•	166	209,056		+ 45	21 219
Титерроманата			66	29 261		- s t	2,371
Madara	446	I	2 Rg	308 140	691	∓ 18 o	33 914
Transagalan	746	1	276	265 396	266	+ 03	11,968
Total	8,701	31	4 118	2 B31 280	32.0	+ 03	205,061

Includes Kodeskausi

The chief towns are Madura, a municipality and the administrative head quarters, and Districture and Ramakin, the head quarters of two of the revenue subdivisions. Of the total population 2,550,783, or 91 per cent, are Hindus by religion, 168,618, or 5 per cent, Musulmans, and 111,837, or 3 per cent, Christians. The last are chiefly Roman Catholics, and the Muhammadans are chiefly Sumns by sect. Except in

[†] Intindes Medakaisttär Paramaged: Truckei: and Truckdass:

¹ Includes Temporation and Temporation

the Madura talks, where there is a very large urban population and the density is as high as 700 persons per square mile the pressure of the population on the soil is nowhere very great. The principal vernacular is Taiml, which is spoken by nearly 80 per cent of the people, but 13 per cent of them speak a corrupt form of Telugu and 4 per cent Kanarese, while Patriuh and Hindustani are the vernaculars of two considerable sections.

The District contains a great variety of caster. The most T numerous are the land-owning Vellales (276,000), who are a commonly known by their title of Pillars. Next come the ti Pallans (220,000), who are usually employed in agricultural The Kallans (218,000) are responsible for most of the crime in the Dutrict. They are divided into ten main eacgamous subdivisions which are territorial in origin From time immemoral they have levied blackmail on the villagers as the price of abstaining from robbing them, but the people revolted against their exections in 1893-6, when many of the Kallana were driven from the villages in which they had resided. Next m point of numbers among the castes of the District come the Idayans (153,000), the great thenberd community, who are generally styled Komans, the Valaryans (140 000), a shihart caste found mainly here and in Tanjore, the out caste Paraiyans (140,000), and the Agamudayana (145,000), who have a bad name for crime. These last closely resemble the Marsana, whose reputation for criminality is also notonous, and in their manners and customs they follow the Vellalas Many of them are domestic servants of the Marayan sentiaders. The Marayana (112,000) are found mainly in this District and Tinneyelly They are usually cultivators, but are experts in cattle-lifting They also take a prominent part in the decomes committed in these two Districts, and were the leaders of the anti Shanan nots occurrenced in 1800 by the claims of the Shimins (85,000), the great toddy-drawer caste of the Tamil country, to the right of entering Hindu temples. The Chettis number 81,000 most interesting and distinctive subdivision of this community are the Nattukotta: Chettis, whose head quarters are in the Turuppattur and Turuvadanas taksis. They trade as far as Burms, the Straits Settlements, and Colombo, are shread men of business, hold much of the wealth of the District, and are noted for their gifts to temples and public charities Tottiyans number 67,000. Some of the samuelars belong to this caste. The Patnulkitrans (43,000), a weaving community which speaks Patnuh (a dialect of Gujarāti) and is supposed

to have emigrated from Gujarit long ago, are found in large numbers in Madina town. Among the jungle tribes may be mentioned the Kunnavans and the Paliyans, whose ways and mauners are even more primitive than the general run of these backward classes. The Semmins are noteworthy as affording one of the few examples of hypergamy yet noticed on this coast.

The proportion of the population which depends directly on the soil is greater than usual, amounting to 75 per cent. The large number returned in the census statistics as lawing proprietary rights in land is most marked, exceeding the proportion in any other District in the Presidency, while on the other hand the percentage of the whole population which depends on agricultural labour is much below the average. The inference is that the agricultural of Madura is usually the owner of the land he tills and not merely a farm labourer. Chiefly owing to the numbers of the Labbara, an enterprising Musalman community, and the Nättukottai Chettis, the proportion of those who live by commerce is nearly double the normal

Of the Christian population of 112,000 (of whom all but 636 are natives), nearly 90,000 are adherents of the Roman Cathobe Church. The work of the Madura Cathobe Mission is now carried on in 1,060 villages, and it possesses 132 churches and 391 chapels. It is one of the most ancient and famous of all the missions of the South. As early as the beginning of the seventeenth century there was a Jesuit church in Madura, where a Portuguese priest immistered to a poor congregation of fishermen who had originally been converted by Francia Xavier, and the roll of those who have worked in the District includes such men as Robert de Nobih (died 1656), John de Britto (martyred in 1693), and the learned Beacht, whose Tamil compositions won the admiration of the best scholars in that tongue.

The American (Congregational) Mission of Madura, established in 1834, numbers about 17,600 members, has 17 stations, and works in 506 villages. The chief strength of the mission has in its schools and hospitals. It manages a second grade college at Madura, a high schools, 8 boarding schools, 18 schools for Hindu gris, and 174 day schools giving instruction to 8,000 pupils, of whom 1,100 are gais. Its annual expenditure amounts to Rs. 1,50,000. The Leipzig Latheran Mission under a Swedish board was established in 1874. It has now 1,200 members, 16 churches, 13 schools, and 54 congregations.

The predominant geological formation of the District is grante, and a gravelly bed of laterite, which is often quarted for building purposes, runs through the east from north to

south. These formations determine the nature of the soil in different parts. Very little detailed information is on record regarding conditions in the Ramaild and Savaganga samualäris, but over a considerable portion of the former and of the Tiru mangalam allows the prevailing soil is of the black cotton (karisal) variety and the allied kinds called Ankaras, vaptal, and patial. With this exception the whole of the District is covered with red ferrugmous earth, which, being often gravelly or stony in nature, is usually unfit for continuous cultivation or for the raising of the more valuable crops. Owing to the lack of perennial rivers from which a continuous supply of water could be drawn, the construction of tanks (artificial reservoirs) in which the rain is stored until it can be distributed to advantage has been a leading feature of the agriculture of the District from time immemorial

A striking feature in Madura is the large preponderance of (santindërs tracts over those held on the systemass tenure. De c ducting the former, for which no detailed returns exist, the net a area for which particulars are on record is 3,532 square miles, c or 40 per cent, of the whole. Statistics of this for the year 1903-4 are appended, in square miles —

Taluk.	Area desve so accompt.	Peruts.	Calmable sate	California de de	Impated
Dendagel .	796	88	67	533	75
Palm	328	3	25	367	70
Kodeskinel	413	210	18	59	
Peryakalam	603	I _p I	50	275	56
Mellir.	485	105	43	*5 3	<u>)</u> 91
Paramagusk (1794)			!	!	Ì
mers villages (mly)	4			3	l t
Madura	432	49	ąб	246	182
Transagulan	473	13	42	344	β2
Descript total	3-532	619	105	1,960	480

Of the total area 65 per cent is arable, and of this area 84 per cent, is occupied; while of the occupied area 82 per cent is under cultivation. It will thus be seen that a considerable amount is still available for the extension of holdings. About 83 per cent, of the total area cropped is devoted to the production of food-grains, cereals occupying about 74 per cent and pulses 9 per cent. The cereals chiefly cultivated are rice, savings (Parpelium scrobiculation), chelam (Sorghum vinlgare), rigi (Eleutina caracana), and camba (Pannischen hyphodeum). In the Melitr tilbut the acreage of pulses other than horse

gram (viz black, green, and red gram) is remarkably large. Industrial crops occupy 14 per cent of the total area cultivated, the most important being cotton and the two oilseeds, gingelly and castor. Nearly 90 per cent, of the cotton is grown in Tirumangalam. The tälists which raise the next largest amounts are Dindigul, Pernyakulam, and Palm. Dindigul is famous for its tobacco, which is grown on a large area there and on considerable tracts in the adjacent tälists of Pernyakulam and Palmi. On the slopes of the lower Palms a good deal of coffee has been planted. In the tälists bordering on Timnevelly the black variety of chalcus is cultivated somewhat extensively for fodder, being sown very thickly so as to induce a thin growth of the stalks. July, August, September, and October are the busiest months for the sowing of crops.

The variations in the area of the holdings of Government land and in the land revenue of the District during the years from 1871-a to 1896-7 exhibit an increase of an per cent, and 24 per cent respectively, which shows that assessment has advanced at practically the same rate as the increase in the area cultivated. The great famine of 1876-8 caused about 10 per cent of the holdings to be abandoned, but raturally the current land revenue did not decrease in so large a proportion. Since that period the area and assessment have more than recovered, the extension in the area of holdings being especially marked

Little has been done to improve the quality of the crops grown. During the sixteen years ending 1904, 6 lakhs have been advanced under the Land Improvement Loans Act. In 1901 there was a large increase in the sums granted under the Agriculturasts Loans Act, which is attributed to extensions of 'wet' cultivation in the tracts served by the Perrylir Project referred to below. Before a field can be utilized for 'wet' cultivation considerable expenditure is necessary to level it. 'Wet' cultivation also requires more bullocks than 'dry.'

Stock is maintained in the largest proportion to the extent of cultivation in the Kodaikkoal and Melur tilbah. The average area tilled by a pair of bullocks is largest in Tirumangalam, where the black soils prevail, and is comparatively small in Madura and Pernyakulam, owing apparently to the large proportion of 'wet' lands there. Fine herds of cattle are found in the Palnis, where there is abundant grazing land Elsewhere the country is generally deficient in pasturage for the greater part of the year. More attention is now being paid to the breeding and selection of stock, but no fodder is grown specially for the use of cattle except in Turumangalam. A very

large cattle fair is hold at Madina during the annual featival in Chitrai (April May), and fairly large weekly fairs at Madura and Dridgul. The Puhkulam breed of cattle, now reared at Ayyamkottai, is well known locally. They are very compact animals and good trotters. Large and strong cattle are bred by some samualars for the 'jellicuta,' the distinctive sport of Madura District. This consists in tying a valuable cloth to a bull's horns and challenging any one to remove it. The large crowds present, the noise and shouting and the number of loose cattle which are dashing about, make the bulls which carry the cloths extremely wild and excited, and the operation of removing the cloths is sufficiently hazardous. The plan of penning cattle at night on the fields for the sake of manure is prevalent. The possess bred are weedy but extremely will. The sheep and goats of the District possess no points of especial interest.

The total amount of land watered from the various sources I of irrigation in 1903-4 was 482 square miles. Of this 167 square miles or nearly 35 per cent, were supplied from Govern ment canals 175 square nules (36 per cent) from tanks, or artificial resurvoirs, and 133 square miles from wells. These last are chiefly found in the Palni tabuk, but are also common in Dindigul and Penyakulam, and number 42,000 in the whole District In Palin they impate on an average 64 acres each The number of tanks is 4.081 which is more than in any other District in the Presidency There are 151 river channels, 282 spring channels, and 40 amouts. During the last five years the successful introduction of the Periyar Project has greatly advanced agriculture in the District. Briefly stated, it consists in damming up the Penser ('big river'), which formerly ran uselessly down to the west coust through country which already had a sufficient supply from minfall, and turning it through the Western Ghats by a tunnel down to the eastern side of that range, where water for irrigation was the one thing necessary to the prospenty of the country

The area under 'reserved' forests, including to aquare miles I of 'reserved' hinds, is 619 square miles. The staff of the department consists of a District I orest officer and five rangers, under each of the latter of whomare two foresters. The ranges are Kambam, Kodaikānal, Tāndikudi, Palamedu, and Kanavaypatti. The kambam range is steep and rocky and covered with boulders, and there is little soil except in the valleys. The forests in it contain little of the more valuable timbers, such as teak (Tations grands) and vengui (Phirocorpus Marsiaphina), but in the Van patiphina Reserve a small teak plantation has now been made.

In the Kanaväypatti and Palamedu ranges, the work as condistanced by the proximity of the towns of Madura and Dindigulon the South Indian Railway and of the 'wet' land under impation from the Pernyär Project. The Forest department contracted with the South Indian Railway to supply it during 1903-4 with 12,500 tons of fuel. The forests are either intuated on small isolated halls or on ranges of no considerable height, and the chief tree is Albuma amount. On the Sirumalans, Karandamalans, and Perumalans are plantations containing a certain amount of vegetation, but the other hill tops are narrow and bare ridges.

The Kodaikanal range comprises the alopes of the Palm Hills facing the Palm and Pernyakulam tääkär. A fair amount of songer and mas stands on these, but the forests have been injured by reckless felling in the past. There is hitle demand for timber, owing to the supply from Travancore through the Kambam Valley. Small 'coupes' of from 40 to 50 acres are opened out periodically to meet the local demand for fuel and bamboos. The torest revenue in 1903-4 was Rs 1,73,000, and is rapidly increasing

At Kottämpatti in the Meltir sides the laterate beds are remarkably rich in iron in many places. In the river Vaigni and at Palkanuttu in Dindigul there are aunierous sands of poor quality, which are probably derived from denudation of the Palm Hills and are found only in hmited areas. Salt is manufactured at certain stations on the sea coast by solar evaporation Near Pandalugudi in the Turuchuh takul there are traces of plumbago in crystalline limestone. The quarties of Puharpatti in Triespositive supply a large quantity of born blendic rock used for pillars in temples, while at Aruppukkottai in the Ramnad somendars a splended rich red granite is found which quarties well. At Kalligndi chattrass in Trumangalam a pale granitoid with many pink garnets is largely quarried, and close to Minimedium and Swammer in the Swammer samuaders typical laterate conglomerate of good quality occurs. In the neighbourhood of Kokulum in Trumangulum important beds of crystalline benestone of great beauty are found. On Pamban Island there is an upraised coral reef, and on the coast eastward from Ktiakaras, south of Pamben, marme shelly limestone and calcareous sandatone occur

The most important art in the District is the silk-weaving carried on by the Patnulkärans of Madura town. But the industry is not flourishing, owing to the extensive importation of machine made goods from England and the competition of

gold thread from France Raw silk is obtained from Calcutta, Bombay, Kolleghi in Combatore Dustrict, and Bangalore and Mattur in Mysore In dyeing, homele powder (collected from the glands on the surface of the capsules of the tree Mallotus philippinearis) and lac are used for the production of yellow and red respectively. Anilms dies are now largely resorted to, as the preparation of vegetable colours is a very tedious opera. tion, but though they give lustre and brilliancy, they are not so permanent as the indigenous dyes. Madura was once famed for the preparation of a deep red vegetable dye of great beauty, but this is now hardly ever made. The weaving industry in Dindigul was formerly important, but is declining owing to the importation of fabrics from Bongalore In Paramaguda some of the weavers have taken to other occupations. In the Rammad taksi/cotton fabrics are made and sold locally Coarse woollen blankets (hemblis) are manufactured to a small extent by Kuruba somen in some twenty villages in the Meliir, Din digul, and Palni tolicit. The process from shearing the sheep to the completion of the blanket lasts a month

The Madura Mills Company employs a daily average of 1,760 hands at Madura in cotton spinning, the out turn in 1903-4 was 16,000 lb of yarn. Cotton cleaning is carried on in Mudukulattur and Turnchuh. Messrs Spencer & Co of Madras have a large cigar factory in Dindigul, at which 746 hands are employed. There are three or four lockmakers at the same place whose handswork is excellent. Tanning is also carried on there to a considerable extent by small employers. Bell metal cooking vessels and lamps are made at Manamadural and Dindigul.

The commercial centre of the District is Madura city, which (is the second largest town in the Presidency. The trade there is extensive, and the railway receipts are larger than at any other station on the South Indian Railway. Commerce is chiefly carried on with the adjacent Districts of Tinnevelly, Combatore, and Trichinopoly. A large amount of cotton is sent by cart from Coimbatore through Madura to the cotton presses at Visudupatin and Tinnevelly, and considerable quantities go to the same places from within the District. Cotton and silk fabrics are largely exported, the raw silk of which the latter are made being imported from Mysore. Much tea is conveyed through the District from the Kannan Devan Hills in Travan core on its western border. Other exports are rice, sheep and cattle, tobacco, spaces, and cardamons. Imports include salt from Tinnevelly, timber from Burms, which comes to the

seaports on the coast, and from Travancere and the west coast. Districts

Most of the internal trade is effected at the numerous weekly markets managed by the local boards, the receipts from the fees collected at which amounted in 1903-4 to Rs 4s,000, or more than in any other Madius District except Coimbatore. A large traffic in firewood is carried on between Madius city and the neighbouring hills, and leaf manure is carted in large quantities to the "wet" lands imigated by the Periyar scheme. A considerable trade is conducted between the villages on the Palnis and the adjacent towns in the plans in hill products such as hamboos, honey, dyes, and tans. The chief agents of commerce are the Chettia and Labbais already referred to

The sea borne trade of the Datrict passes through the four ports of Devipatam, Kilakara, Pamban, and Tondi, the value of their aggregate trade in 1903-4 being Rs 1,66,000, Rs 1,80 000, Rs 5,93,000, and Rs 8,24,000 respectively. These deal chiefly with other ports in India and with Ceylon At Devipatam the chief import is rice and the principal export coloured cotton piece goods, Kilakarai trades mainly in rice, Pamban imports rice more than any other commodity, but its largest export is cattle, sheep and goats to Ceylon. Tondi does a large trade in teak from Burma, and its principal export is rice.

The main line of the South Indian Railway (metre mage) runs from the Trichinopoly and Madura border to Madura city and thence to the Tinnevelly border, a distance of nearly 100 The first of these two sections was opened in 1875, and the second in 1876 In 1902 the branch from Madura to Pamban Island was completed as far as Mandapam, a village on the coast on the mainland aide of the narrow strut which divides the pland from the shore, a distance of 90 miles. This line has done much to open up the Ramnad country, but communications by railway are still much needed in the eastern takent of that sentudirs. A proposal has accordingly been made that a line should be constructed from Rämnäd via Triuyadanes. Devakottan and Karankkudi to Kannadukattan on the northmastern frontier of the District, provided that the Pudukkotha State consents to carry it on from Kännaduhättan through Pudukkottas town to Tamjore Should the State not consent to this, the alternative course would be to take the line to Arentainen in Tanjore District, and link it with the Tanjore District board's railway to Ameritang: A line has also been spacested from Dindigul to Palni, provided that the Combatore

District board continues it from the latter town to Combatore via Udamalpet. Another proposal contemplates a light railway from Ammayanāyakkantīr on the main line of the South Indian Railway to Kuruvanuttu at the foot of the Palni Hills, with branches to the samtarium of Kodaikanal and to Bodi nāyakkantīr

The total length of metalled roads in the District is 624 miles. and of unmetalled roads 608 miles, all are maintained from I ocal funds, except 24 miles kept up by the Public Works department. Avenues of trees have been planted along 1,001 miles. The main lines are those from Madina city, leading to Pudukkottai through Melur and Truppattur, to Mandapam through Ramnad, to Trichmopoly through Melür, to Arup pokkottas, to Allinagaram, and to Ammayaniyakkantir, and those from Ammayanayakkanur to Pirmed, from Dindigul to Palm, and from Dindigul to Vattinam. On the lower Palma the Attur ghat road has been opened between Attur and Kennenur The District is thus fairly supplied with means of communication, except in the Raimad samuadars, there the roads are few and bad, and in the ramy season practically impamable.

So far as recorded information goes, the District does not I appear to have been senously affected by any bad season prior to 1864. During the famme of 1866-7 the average number of people in receipt of relief during eleven months was 4,000. of whom one third were employed on works and two thirds relieved gratuitously. The next famine was that of 1876-8 During the nineteen months, December, 1876 June, 1878, the average number of persons relieved by Government was Madura was situated on the southernmost limit of **98.000** distress. The maximum number reheved during any one month was 100,000 in September, 1877. The north east monsoon of 1802-3 was very deficient, and the necessity for carrying out relief works on a large scale throughout the Ramnad samunday: was only obviated by a very large migration of the inhabitants to the neighbouring rich Dustrict of Tanyore and to Ceylon, and by a fair fall of rain in March, 1893, which gave succour to the rendue

Madura has three safeguards against famme namely, the railway, which did invaluable service in 1876-8 by bringing rice from Tuticorin, and which now runs farther to Mandapam, the Pertyar Project, and the readiness with which the people emigrate to Ceylon when the seasons are bad

For general administrative purposes the District is grouped I

into four subdivisions. Dindigul and Ramnad are in charge of Covenanted Civilians, and Madura and Melur are usually in charge of Deputy Collectors recruited in Indu, though the latter is often assigned to the Assistant Collector dural subdivision comprises the Dindigal, Palm, Penyakulam, and Kodaikanal taleks Ramnad comprises the samuadarus of Ramnad and Straganga, the island of Pamban, and a few Government villages Madura comprises the Madura and Tirumangalam isshift and the Melur Deputy Collector ad ministers the Melur stabil and carries on the magneteral work of Madura cuts The Rammad and Swammura summadorus are subdivided into the eight samuslars takult of Mudukulattur. Peramagudi Ramnad, Siyaganga Tiruchah Tiruppattur, Tiruppovenem and Tirovadenes, each in charge of a deputy taksildar. At Dandigul, Madura, Melur Palni, Penyakulam, and Tiruman galam, there is a takuldar assisted by a stationary sub-magistrate Subordinate to these takniders are deputy takniders with head quarters at Uttamapalaryam, Vedasandur, Nilakottai, Madura city, and Undempatti Another independent deputy takuldar is stationed at Kodaikanal The superior staff of the District consists of the usual officers

Civil pistice is administered by the seven District Munifis of Madura, Dinchgul, Penyakulam, Paramagudi, Sivaganga, Manamadurai, and Tirumangalam (the court of the latter being at Madura city), by two Subordinate Judges (Madura East and West), and by a District Judge. The village head men have the usual civil powers in petty cases. In 1904 as many as 10 400 states were filed before them. Latigation is more than usually common.

Thefts house breaking, decoutes, and cattle lifting are the chief criminal offences. The system of giving higher high, or 'cline wages,' for the recovery of stolen property, material of reporting the theft to the police, is very general and greatly hinders the detection of crime. The most noted thieves are the kallans, who are experts in cattle hiting and will often travel forty miles in a night. The cattle they steal are either returned to their owners on payment of tappu high or sold across the border in Tunnevelly and Combatore, or even sometimes conveyed to Ceylon.

In the sketch already given of the political history of Madura, it has been seen that from the stateenth century the system of government was fendal, the poligies enjoying large estates and collecting the revenue in an arbitrary fashion. It has also been mentioned that the history of the province of

Dindigal differed from that of the rest of the District until this latter came into British hands. Directional having been acquired by conquest from Tipu Sultan in 1700 and the remainder of Madura having been finally ceded to the British in 1801. The revenue history of Madim proper is consequently distinct from that of Dindigul, while that of both differs again from the course of events in the two samuadarus of Sivingings, and Ramnad, which had long been under the rule of the Sempatta or chiefs of the latter place. Mr Mac lead was the first Collector appointed to the province of Dindigul The system of administration adopted at first consisted in retaining the land revenue under the direct management of the officers of government. Thus did not succeed, and the receipts dwindled to a very low figure Mr Macleod tendered his resignation in 1794, and soon afterwards the province was leased out to renters for a term of five years In 1706 Mr Hurdus took charge He concluded a survey of the greater part and introduced a system of settlement which, though it broke down at first because the assessments were too high, proved more satisfactory after at had been improved and elaborated. On the acquisition of the rest of Madura in 1801 Vir Hurdis was made Collector of the whole District so constituted, including Dindigul For the next three years the system of renting out the villages seems to have prevailed. In 1804-5, however, a settlement founded upon the money assessments introduced by Mr. Hurdis was made with each individual typt. In 1807-8 thennal leases were granted to the village communities. These were failures, and in 1810-1 the system of settling with each ryot was reverted to In 1814-5 this systems; tenure was formally adopted in both Dindigol and Madura proper, and has continued in force from that date. The District was resurveyed between 1880 and 1885, and settled between 1885 and 1803. The survey showed that the old accounts had understated the area in occupation by 8 per cent, and the settlement resulted in an increase of x per cent in the land revenue

The average assessment per acre on 'dry' land is now Rs 1-1-8 (maximum, Rs s, minimum, 4 annas) and that on 'wet' land Rs 4-1-9 (maximum, Rs 8-8-0, minimum, Rs s-8-0). The revenue from land and the total revenue in recent years are given on the next page, in thousands of rupees.

Outside the five municipalities of Madura, Dindigul, Palm, I Pernyakulam, and Kodaikānal, local affairs are managed by the ^b District board and the six tilde boards of Madura, Melür, I trumangalam, Sivaganga, Rämnäd, and Dindigul. The areas in charge of the first five of these correspond with the takets and assumidirus of the same names, and that controlled by the last of them comprises the takets of Dindigul, Pertyakulam, Palm and Kodaikānal. The total expenditure of these boards in 1903 4 was about 7 lakes, the principal items of outlay being roads, medical institutions and samitation, and the up-keep of schools. Their income is derived mainly from the cess on land. The affairs of thirty seven of the smaller towns are managed by Umon panchapats established under Act V of 1884, which have power to raise revenue from a tax on houses.

	1980- 1	1 8 00-€	1900-z	3908 4
Land revenue Total revenue	27,06 84 04	43 00	84 of 86 og	36 eg 60,67

The police are in charge of a District Superintendent, with head quarters at Medura city, and an Assistant Superintendent at Ramnad The force comprises 22 inspectors, one European head-constable for the reserve police, 153 other head constables. and 1,060 constables. There are 107 police stations, and the reserve police at head-quarters number 131. Punitive police forces are at present quartered at Aruppakkotta; and Kampdi. in consequence of the participation of the inhabitants in the anti-Shanan nots of 1899. The village police number 650 telespers, and 50 road telespers are employed to guard certain spots along the main routes. The District sail, at Madura city, has accommodation for 455 prisoners, while t8 subsidiary pale have a daily average population of 116 presoners and accommodation for 299. The chief industry in the Madura pail is cotton weaving. Corr and grass matting are also made, the former chiefly for the Public Works department

According to the Census of 1901, Madura stands sixth among the Madras Districts in point of literacy and about 7 per cent of the total population (145 males and 05 females) can read and write. The takks which rank highest are Madura, where 17 per cent of the people are literate, and Kodaikānai. The position of this latter is, however, largely due to the number of Europeans and Eurapians who reside in its head quarters station. The total number of pupils of both texes under instruction in 1880 1 was 20,971, in 1890-1, 42 506, in 1900-1, 63,087, and in 1903-4, 73,411. On

March 31, 1904, there were in the District 1,890 educational mentutions of all kinds, of which 1,274 were classed as public and 616 as private. The former included 1,230 primary, 33 secondary, and 9 special schools, and the 2 Arts colleges at Madma city Four of them were maintained by the Educa tional department, 83 by the local boards, and 2 by the municipalities, while 708 were aided from public funds and 472 were unsided. The girls in them numbered 4,539, and 690 more were in private elementary schools. The number of boys in primary classes is 24 per cent of those of school going age, and the corresponding percentage for girls is a Among Muselmans the corresponding percentages are 77 and 5 About 5,000 Panchamas are being educated at 136 schools chiefly intended for that class. The total expenditure on education in 1903-4 was 3 68 lakes, of which 1 20 lakes was derived from fees. Of the total, 57 per cent was devoted to primary education.

There are 41 medical matitutions in the District, with I accommodation for 183 in patients. The new municipal hospital in Madura city which cost more than a lakh, is the largest. The Albert Victor Hospital, belonging to the American Musicon, is a splendidly equipped building with accommodation for 44 in patients. In 1903, 3,400 in patients and 437,000 out patients were treated, and 16,000 operations were performed in all these institutions taken together. The total expenditure was Rs. 1 00,000, two thirds of which was met from Local and municipal funds.

The number of persons successfully vaccinated in 1903-4 was 77,000, or 28 per mille of the population, the Presidency t average being 30 per mille. Vaccination is compulsory in all the municipalities and Umons.

[W Francis, District Gasetteer, 1906]

Dindigul Subdivision —Subdivision of Madura District, Madras, consisting of the four tability of DINDIGUI, PALMI, KODAIKĀNAL, and PERIYAKUJAM

Dindigul Taltik — Taltik in the Dindigul subdivision in the north of Madura District, Madras, lying between 10° 0 and 10° 49 N and 77° 40' and 78° 15 E, with an area of 1,122 square miles. The population in 1901 was 430,524, compared with 391,090 in 1891. It contains one town, District. (population, 25,182), the head quarters, and 209 villages. Deputy takeliders are stationed at Vedesandur and Nilakottai. The demand for land revenue and cosses. In 1903-4 was Rs. 5,02,000, and the printers paid by the two

santadars estates of Kannivich and Ammayanityakkanur amounted to an additional Rs 52,000. The take is an undulating plain, bordered by the Palast Hills and the smaller Kanandamaka and Sirumaka ranges. The soil, except where enriched by silt from the hills, is generally poor. The cultivation is almost wholly unimigated, but a large number of wells supply patches of 'wet' cultivation and garden crops. The chief river is the Kodavanir, a tributary of the Amaritania Among special crops tobacco may be noted, while plantams and coffee are cultivated on the Sirumakan

Paint Taluk — Taluk in the Dindigul subdivision in the north of Madura District, Madras, lying between 10° 8 and 10° 43′ N. and 77° 15′ and 77° 55 E, with an area (including the Kodaikinal tähick, which formerly belonged to it) of 599 square miles. The population in 1901 was \$14,972, compared with 195,050 in 1891. It contains one town, Palmi (population, 17,168), the head quarters, and 117 villages. The demand for land revenue and ceases amounted in 1903–4 to Rs 2,96,000, of which Rs, 48,000 was perhistic paid by samindari estates. The tähick is bounded on the south by the Palmi Hills. It is almost all unimigated, but patches of wet land are supplied by about 50 tanks, by the rivers Shanmukhanadi and Nanganji, and by the Nalkitanga stream Compared with other parts of the District, it is not well protected from famine.

Kodaukānai Taluk — A mmor takek in the Dindigul rub division of Madura District, Madras Its limits correspond roughly with the Palmi Hills, but their exact area has not yet been ascertained. The head quarters are the bill station of Kodarkawal (population, 1,919), and the talak contains in addition 15 small hill villages. The population in 1901 was 19,677, compared with 18,380 in 1891. The demand for land revenue and cesses amounted in 1903-4 to Rs 48,000 Cultivation is carried on along the sides of the valleys, and in some places presents a most picturesque appearance, owing to the numerous terraces which have been formed down the slopes of the hills, either to obtain sufficiently level ground or to render the hill torrents available for irrigation. Among special products may be mentioned wheat, garlic, coffee, and cardamons. The rice produced is of a coarse quality and takes between eight and ten months to ripen are largely cultivated in the villages among the lower Palna, and numerous herds of outile are tended by the villagers of the upper part of the range. Bducation is backward among the

natives, and a promoted almost entirely by the Jesuit and American Missions. The samistion of the villages is more than usually defective

Perlyakulam Taluk — Taluk in the Dindigul subdivision of Madura District, Madras, lying in the south west corner of the District, between 9° 32 and 10° 15' E and 77° 11' and 77° 51 E, with an area of 1,520 square miles. The population in 1901 Was 320,008, compared with 263,253 in 1891 contains three towns, Penyakulam (population, 17,060) the head quarters, Bodināyakkanur (22,209), and Uttamapāku am (10,000), and 83 villages The demand for land revenue and cesses amounted in 1903 4 to Rs 3,75,000 and seshlash from samuelers estates to Rs 32,000. The takek compared with other parts of the District, is sparsely populated. flow the Vaigni and Surnh rivers, the latter of which receives the water of the Perivar Project, and the tributary rivers Teni and Varlhanadi. On three sides it is hemmed in by hills—on the west by the Western Chats, on the north by the Palm Hills, and on the south by the smaller Andipatti range. A large valley running up into the Western Ghats, known as the Kamham Valley, is one of the pleasantest parts of the District

Metur Taluk.—Takek and subdivision in the east of Madura District, Madras, lying between 9° 52' and 10° 30 N and 78° 8 and 78° 29' E, with an area of 485 square miles The population in 1901 was 154,381, compared with 148,656 in 1891. It contains one town, MELLE (population, 10,100), the head quarters, and 98 villages. The demand for land revenue and cesses amounted in 1903-4 to Rs 4,60,000 In the north are the irregular masses of the Alagar, Nattam. and Kamndamalar hills. The more northern villages, known as the Arumaginam, which are utuated among these hills, are difficult of access owing to the lack of roads The soil is chiefly red sand. One half of the talks is supplied with water from the Penyar Project, and some of the best vaneties of nee produced in the Presidency are grown in this part remaining portion is impated by the Palär, the Tirumanimuttar, and the Upper streams, which, however, are not perennial, and by numerous small tanks which these rivers supply or which are ram fed The table has been greatly transformed and enriched by the Perivar water.

Rämmäd Subdivision.—Subdrumon of Madura District, Madras, consisting of the Rävnäd and Sivadanda estates. The former of these is subdivided for purposes of administration into the samuelari taknis of Rämnäd, Tiruvädänsi, Paramagudi.

Truchuli, and Mudukulattür, while Straganga, Truppattur, and Truppuvanam are comprised in the latter

Ramand Estate.—A permanently settled saminator estate in the south and east of Madura District, Madras, lying between 9° 6' and 10° 6 N and 77° 56' and 79° 19' E, consisting of the five saminator taketis of Ramand Turns adding, Paramaguda, Turnchuli, and Mudukulattur, with an area of 2,104 square miles. Population (1901), 723,886. It includes the whole of the sea coast of the District. The pesthask (including cosses) payable to Government by the estate in 1903—4 was 3½ lakks.

Regarding the early history of the estate legends are plentiful but facts are few. Its chiefs are the titular heads of the numerous caste of the Maravans, and bear the title of Setupati, or 'lord of the causeway'. This causeway is the ridge of rock which used to connect the tongue of the mainland running out into the Gulf of Manaar with the island of Pamban Island contains the holy temple of RAMESS ARAM, and tradition has it that when Rama crossed to the island from Ceylon by way of Adam's Bridge and founded the temple as a thank offering for his victory over Ravana, he also appointed the first Setupate to protect the pilgrims who should traverse the cause way to vast it. The chiefs of Rampled appear to have undoubtedly borne the title as far back as the fourteenth and fifteenth centuries, and in the early years of the seventeenth century it was formally conferred by one of the Naik kings of Madura on the head of the Maravans, from whom the present owners of the estate are descended

Of the earlier chiefs Raghumatha Kilavan (1673-1708) is perhaps the best known. It was he who moved the capital of the country from Pogalur, the ancient family seat, to its present site to miles further east at Ramnad, which he fortified 1725 2 usurper became Setupati, but he treated his vassals 20 harshly that one of them somed the legitimate heir and, with the help of the Raja of Janjore, attacked and defeated him The country was divided by the victors, the Rails of Panjore annexing that part of it which key north of the Pambar river The rebellious vasual took the more valuable two fifths of the remainder, and founded there the line of the present samundars of Stvaganga, while the other three fifths, the present Rimnid estates, went to the lawful herr. Throughout the Carnatic Wars the troops of Rimmid frequently figure on one aide or the other. In 1705 the Setupati was deposed by the British for menhordmenton and murule, and died a state prisoner The estate was formed into a samuadare in 1803, a permanent

The rule of her successors has been in the main one long chronicle of mismanagement, litigation, and debt. The last Raja of Ramnad succeeded in 1873 as a minor and the estate was accordingly managed for the next sixteen years by the Court of Wards. During this period 8½ lakhs was spent on repairs to urigation works, 14 lakhs of debt was cleared off, and the estate was handed over to its owner in 1889, in good order, with a revenue which had been increased from 5 lakhs to 9, and with a cash balance of 3½ lakhs. Within the next five years the Raja had spent this balance, incurred further debts of over 30 lakhs, and pledged the best portions of the estate to his creditors. The ramindars is now managed by trustees for the creditors and the present proprietor, who is a minor.

The estate is perhaps the most desolate and unmyiting area. of its size in the Presidency Almost dead level throughout, and for the most part infertile, the coast is lined with blown sand and brackish swamps, diversified only by stunted scrub and palmyra pulms. It has only two four roads (those from Madura to Rammad and to Trruchuh), its urigation works depend upon the capricious rivers Vaigai and Gundar, and are often in the last state of disrepair and neglect and except Rämmad and Rämeswaram, already referred to, it contains no town of interest or importance. Its chief port, Kilakarai, is in a declining state, and two others of its principal towns, Kamudi and Abrilman, have advanced but little for many years Paramagnet, on the road to Madura, has some reputation for hand painted cloths, but the only flourishing town in the estate is Aruppukkottai on the western border, which derives much of its prospenty from trade with the neighbouring District of Tinnevelly

The South Indian Railway has recently been carried from Madura through Ramnad to Mandapam, at the extreme end of the tongue of mainland which runs out to meet Pamban Island Projects for carrying it over the remains of the old canseway on to the island, and for cutting a ship canal through the island and establishing a port for ocean going vessels near by, are now under consideration, and if carried out will greatly increase the prosperity of this portion of the samuelars. Pamban and the other smaller coral islands in the Gulf of Manaar are even at present the pleasantest portions of the estate, and are noted for their turties and oysters.

Ramand Tahail. - Zamindars tokal in the estate and

subdivision of the same name in Madura District, Madraa. The population was 113,851 m 1901, compared with 107,601 in 1891. It contains three towns, Rāmnāo (population, 14,546), the head-quarters, Kilakarai (11,078), a decaying seaport on the coast, and Ramsswaram (6,632), which stands on the island of Pamban and is noted for its beautiful temple. The takul is an unlovely tract, consisting for the most part of poor sandy or saline soils, covered with little growth beyond stunted shrubs and palmyra palms. The seabreezes, however, suffice to keep it couler than most of the rest of the District.

Thruvadanas.—Zamindars takal forming part of the RAV MAD ESTATE, and lying in the northern portion of the Rimnid subdivision of Madima District, Madras The population in 1901 was 155,346, compared with 151,472 m 1891 contains one town, DEVAROTTAI (population, 9 503), and 809 villages The head quarters are at Turuyadanas, where a deputy takuldar is stationed. The takul reproduces the general features of the Rämnäd subdrvision, being a level plain undiversified by hills, forests, or rivers. The sources of irrigation are rain fed tanks. The population mainly consists of Kallana, Maravans, and Agamudayans, but the most influential class are the Nattukottas Chettia, who live chiefly in Devakottas and the neighbouring villages and carry on a undespread business. in money lending Muhammadans are found in large numbers on the sea-coast near Tonda, a seaport possessing a considerable import trade in teak and other timber from Burma and Ceylon. and exporting sheep and rice to Ceylon. The only religious centres are the temples of Turuvidinas and Kandanir, and the sole object of antiquarian interest is a ruined Jam temple at Hanumentakodi

Paramagnda Tahail.—Zaminder take! in the Ramaid subdivision and estate, Madura District, Madras. The population in 1901 was 142,665, compared with 131,151 in 1891. It contains one town, Paramagura (population, 16,134), a station on the Madura Pamban Railway and the head quarters of the deputy takeider, and 375 villages. The river Valgas passes through the takeid and serves as the main source of irrigation.

Thruchuli.—Western samesdars takes in the Rimnid subdivision and estate, Madura District, Madras. The population in 1901 was 166,769, compared with 164,239 in 1891. It contains 354 villages and two towns. Assurption to an extensive tion, 23,633), the head quarters, which carries on an extensive Palaryampatti (4.967) The chief manufacture is the weaving of cotton cloths of inferior quality. The country is for the most part black cotton soil, it is desolate and and, the monotony of the plain being relieved only by palmyra palms and patches of low scrub. The impated area is, proportionately to the total extent, very small

Mindukulattur.—Zamedāri takul in the Ramnād subdivision and estate, Madura District, Madras. It is named after its head quarters, where a deputy takulāār and submagnitate is stationed. The population in 1901 was 146,255, compared with 135,182 in 1891. It contains two towns, Amramam (population, 7,338) and k-amin (6.854), and 399 villages. The takul possesses the same desolate and uninviting appearance as the rest of the Rämnād estate. It is largely black cotton soil, and during the rains, owing to the absence of roads, the country becomes nearly impassable.

Savaganga Estate -A permanently settled somudars estate in the Ramnad subdivision of Madura District, Madras. lying between 9° 30 and 10° 17 N and 78° 5' and 78° 58 E, with an area of 1,680 aguare miles Population (1901), 394,206 The perhassa payable by the sammalar to Govern ment (melading cesses) amounts to 3 lakhs. Formerly the estate was part of the neighbouring accoundant of RAMMAD, the territory of the chiefs called Setupatia, or 'lords of the causeway' leading to the sacred temple of RAMESWARAN, but about 1730 one of these Setupatis was forced to surrender two fifths of his possessions to the sedges of Nalkottu, who thenceforth became independent and was known as the Lesser Marayan, Marayan being the caste to which both he and the Setupati belonged During the latter part of the eighteenth century the rulers of Savaganga were involved in the struggles of greater powers In 1773 the country was reduced by the British, the Rapa was killed at Käliyarkovil, and his widow was forced to fice to Dindigul, where she remained under the protection of Haidar Ah Later, she was restored to the samuelors, and in 1803 the permanent settlement was made with one Udaya Tovan of the family. The subsequent history of the estate has been a tale of mismatagement and higgstion, one of the succession amin having lasted a very long time and cost a great deal of money. At present its resources are being developed by European lessees who, in consideration of having paid off the lest seminder's debts and made him an allowance for life, obtained a lease of the entire estate for a term of thirty

years. The present seminder is a minor under the Court of Wards.

Savaganga Tahall—Zamadari takul in the Ramad subdivision of Madina District, Madras, which, together with the Tumppattur and Timppuvanam takuli, makes up the Savaganga Estate. The population in 1901 was 155,909, compared with 146 549 in 1891. The takul contains one town, Savaganga (population, 9,097), the head-quarters of its deputy takullar, and 520 villages. It is an unbroken level plain, mainly of red soil, and is fairly fertile. The crops are singuisted chiefly by the Vargas and by river fed tanks.

Truppattur Tahail — Zamindari tahal belonging to the Sivaganga Estate, situated in the northern portion of the Ramnad subdivision, Madura District, Madras. The population in 1901 was 209,036, compared with 200,087 in 1891. It contains 366 villages and two towns. Tratepatrica (population 5881), the head-quarters and the station of a deputy takular, and Karaikaldi (11,801). The chief sources of irrigation are the Palär river and rain fed tanks, but the takul depends in large measure for its food supply upon the neighbouring takula of Melur, half of which is supplied with water from the Paritar Project. Among its manufactures may be noted brass vessels and coco-nut fibre. The country is a level plain, broken only by a few hills near Pulannalsi and Karasappatti, and the soil is red sand.

Thruppuvanam — Zamindari takul, forming a portion of the Sivasanga Estate, in the Ramnad subdivision of Madura District, Madras. The population in 1901 was 29,261, compared with 29,878 in 1891. It contains 66 villages, the chief of which is Tiruppuvanam, a station on the South Indian Railway and the head quarters. The takul lies along the bank of the Vaigat river, which supplies many of its irrigation tanks. The soil is mainly alluvial.

Madura Subdivision —Subdivision of Madura District, Madus, consisting of the *tillula* of Madura and Tiruman-Galam

Madura Takik — Takis in the subdivision and District of the same name, Madrax, lying in the centre of the District, between 9° 45' and 10° 12' N and 77° 51' and 78° 18 E, with an area of 446 square miles. The population in 1901 was 308,140, compared with 261,195 in 1891. It contains one town, Madura City (population, 105,984), the head quarters and the second largest manuscipality in the Presidency, and 283 villages. The demand for land revenue and cesses amounted

m 1903-4 to Rs 6,40,000, excluding perklash (Rs 3,000) paid by samulari estates. The chief source of the agricultural prosperity of the takeh is the water of the Pirryan Project, since the advent of which a large extension of 'wet' cultivation has taken place. Through the takeh runs the Vaigai river, and it is bordered on the north and west by the Sirumaka and Nagamaka Hills.

Torumangalam Taluk. - Take in the west of the Madura subdivision of Madura District, Madras, adjoining Tinneselly, and lying between 9° 37 and 10° 5 N and 77° 42 and 78° 7 E, with an area of 745 square miles. The population in 1901 was a65,396, compared with a64,621 in 1891. It contains one town, I TRUMANGATAM (population, 8,894), the head quarters and a station on the South Indian Railway, and 276 villages The demand for land revenue and cesses amounted in 1903-4 to Re 4,50,000, of which Rs 38,000 was perhitast paid by samundars estates. The talker consists for the most part of black cotton soil, assessed at Rs 2 an acre or slightly less It is largely inhabited by the thief caste of the Kallans, who are notorious cattle lifters. The irrigation sources are mostly man fed. A hall called Saduragen as vanied by palgrams from various parts of the District on the festival of Adi Amayasa A small temple at Kovilpatti near Vikramangalam is noted for its stone-carving, and its conservation has been undertaken by Government

Absramam — Town in the Ramnad estate, Madura District, Madras, intrated in 9° 29 N and 78 27° E. Population (1901), 7,338, of whom nearly half consist of the Musalman trading community of Labbais. The chief industry is cotton weaving, and there is a considerable trade in grain, cotton, and cloth. The town possesses a good supply of drinking water and a fine irrigation tank. A local superstition declares that within an area of two miles snake-bite is innocuous.

Adam's Bridge —A ridge of sand and rocks, about 17 miles in length, stretching from north west to south east from the island of Rameswaram on the coast of Madura Dustrict, Madras, to the island of Manaar off Ceylon, and nearly closing the northern end of the Gulf of Manaar. The centre of the bridge is in 9° 5 N. and 79° 34 K. At high tide three or four feet of water cover it in places Hindu tradition says that the bridge was made by Hamman, the monkey god, and his army of monkeys, to convey Rama across to Ceylon in his expedition to recover his wife Sitä, whom Rayana, the ten headed demon king of that island, had

carried off. It is under consideration to carry the nalway, which now runs as far as Mandapam, on the mainland opposite the island of Parcian, across to the island and thence over this ridge to Ceylon, thus linking up the Ceylon and Indian railways and establishing direct and unbroken communication between the port of Colombo and India generally.

Alagarkovil.—A temple in the Mehir talial of Madura District, Madria, situated in 10° 5'N and 78° 14' E, about 12 miles north east of Madura city at the foot of the south eastern alope of the Alagar hills, secred to the god Alagar. The building is very ancient and is held in special repute by the Kallans and other threving communities, who are said to devote to the god a portion of their ill gotten gains in the expectation that they will thereby be successful in their criminal expeditions. The temple is surrounded by an extensive outer will which once served as a fortification. At the festival on the new moon day of the month of Adi thousands of worshippers from the neighbouring Districts gather here. Several fine porches about it are now rapidly falling into runs. Three miles away on the Alagar hills is a building containing a spring, the water of which is believed to possess power to cleanse from all an

Armppukkottas - Head-quarters of the Truchuh takel of the Ramnad estate, in Madura District, Madras, situated in o° 31 N and 78° 6' E Population (1901), 23,623 thriving place and its population has doubled in the last twenty vests but it suffers from lack of communications, being 13. miles distant from Virudupath, the nearest railway station The inhabitants consist chiefly of Sedens, who are weavers, and of Shandra, an enterprising community in commercial spatters, who have brought the town to its flourishing condition. The place has at present to support a force of punitive police, owing to the recent disturbances caused by the claims of the people of this casts, which is reckoned low in the social scale, to enter Hindu places of worship The chief industries are cotton weaving and dyeing fabrics made here are exported to Colombo, Singapore, and Penang

Bodinityakkanur — Town in the Penyakulam tääsä of Madina District, Madria, situated in 10°1' N and 77° s1' B Population (1901), s2,209. The town, which is the chief place in the samestäri of the same name, is growing rapidly, mainly because the coffee, cardamonis, and tea of the Devikolam and Municar estates, which have in recent years been opened out on the hills in Travancore just above it, pass

through on their way to the milway, and it is also a base for the supply of the grain and other articles consumed by the employes on these estates. It is under consideration to construct a railway to the town from Ammayanāyakkanūr on the South Indian Railway. The Bodināyakkanūr sammalars is one of the seventy two ancient palasyams (poligārs' estates) of Madum. The sammalār's family is taid to have emigrated hither from Gooty in 1336. The estate was seized by Haidar Ali in 1776, and after an interval of semi-independence was resumed by his son Tipu for arrears of inbute. The Rāja of Travancore subsequently seized the property, but in 1793 the sammalār recovered it. The country was thereafter settled by the Company's officers.

Devakottal—Town in the Tiruvadana: tokal of the Ramaid estate, Madura District, Madras, situated in 9° 57 N. and 78° 51' E. Population (1901), 9,503. The place is chiefly interesting as being the centre of the wealthy trading community of Nattukottal Chettia, and abounds in the fine residences which these people are fond of constructing for themselves.

Dindigul Town (Denix kel, 'the rock of Dindu,' an answe or demon) — Head-quarters of the subdivision and tākk of the same name in Madura District, Madras, situated in 10° 28 N and 77° 59' E, on the South Indian Railway. The population in 1901 was 25,182, of whom 18,060 were Hindus, 3,175 Musalmans, and 3,947 Christians. It was constituted a municipality in 1866. The receipts and expenditure during the ten years ending 1902—3 averaged Rs 35,900 and Rs 37,900 respectively. In 1903—4 they were Rs 43,000 and Rs 42,700, the former consisting chiefly of the proceeds of tolls, the taxes on houses and land, and fees from markets. A scheme for the supply of the town with water was completed in 1896 at a cost of Rs 76,600. The extension of the head works at a further outlay of Rs 39,000 has been senctioned.

Situated 880 fret above the level of the sea, Dinchgul has a dry and hot but healthy chimate. At a few miles distance use the masses of the Palm Hills and the Sirumalai range. The staples of local trade are hides, tobacco, and coffee and cardamoms from the estates on the Palm Hills, for the conveyance of which the system of roads radiating from the town affords exceptional facilities. The chief manufacture is cigarmaking, 746 hands being employed by Messrs Spencer & Co in their important factory. Silk thread of peculiar fineness is spun by weavers of the Patntilkäran community, and Dinchgul

locks are renowned throughout the Presidency. Being the head quarters of the subdivision, it contains the office of the divisional officer and also those of an Assistant Engineer, a District Munsif a takuldar, and a sub-magistrate. There are two churches, one belonging to the American Mussion and the other to the Roman Cathobes, and also a hospital and a dispensary. The streets and roads are well laid out, and the substantial nature of the houses shows that the population is flourishing

Dindigul was formerly the capital of a province which was practically independent of, although nominally subordinate to. the Madura kingdom. The fort which commands the town is built on a remarkable wedge-shaped rock 1,223 feet above the sea, and still remains in good preservation having been occurred by a British garrison until 1860. As a strategical point of great natural strength dominating the passes which lead into Madura from the Combatare country, its possession in former times was frequently keenly contested. Between 1623. and 1659 the years of Tirumala Naik's reign, it was the scene of many encounters between the Marithan and the Mysore and Madura troops. In the next century Chanda Sahib (the minuster of the Nanab of the Carnatic), the Marathus and the Mysore troops occupied the fort in turn. In 1755 it was garrisoned by Haidar Ah who used it as one of the bases from which he conducted his operations in the Camaric, and to thwart British schemes in Trichmopoly and Madura. In the wars with Mysore the fort was captured by the British under Colonel Wood in 1767, and restored to Haidar Ah by treaty m 1760. It was again captured in 1783 by Colonel Lang, and again restored in 1784 under the Treaty of Mangalore It was finally captured by Colonel Strart in 1790 and ceded to the East India Company in 1792

Kamudi — Town in the Mudukulattur takes of the Rammad estate, Madura District, Madiras, situated in 9° 24' N and 78° 23 E. The population (1901) is 6,854, of whom 1,000 are Musalmans. It contains a large Siva temple, which has been the subject of a famous law suit, the Shanana, a caste of toddy drawers and merchants, claiming the right to enter within its precincts and the majority of the rest of the Hindus opposing their claim. The town participated in the nots which were caused in 1899 by this and other pretensions of the Shanana, and a small force of punitive police is now quartered on it. Briss and bell metal vessels are manufactured here.

Karaikkudi — Town in the Tiruppattur teskil of the Siveganga estate, Madura District, Madura Prendency, satuated in 10° 4′ N. and 78° 47 E. The population has rapidly in creased, and numbered 11,801 in 1901, compared with 6,579 in 1891. The town is chiefly noted as one of the centres of the Nattukottar Chettis, an enterprising class of merchants and money lenders, and the many handsome residences which these people have constructed within it have added greatly to its appearance

Eliakarai — Sesport in the Ramnild takul of the Ramnild estate, Madura District, Madras, situated in 9° 14′ N. and 78° 48 E on the Gulf of Mansar, 10 miles south of Rämnild, from which place it is separated by a wide morass, all but impassable in the ramy season. It is an untidy and dreary looking town, surrounded by sandy wastes and a little low scrub. The population (11,078 in 1901) consists mainly of Labbais, a Musalman trading community. Its commerce, which is chiefly in grain, is carried on mainly with Cocanida and Ceylon. The Labbais are experts in drying for chank shells (Turbinella rapa), which are obtained principally opposite Devipatam, Tiropalakudi, and Rämeswaram.

Kodaikānal Town ("Forest of creepers") -- Head quarters of the talkak of the same name, in Madura District, Madras, satuated in 10° 14' N and 77° 29 E, on the Palni Hills Formerly an insignificant hamlet of Vilpaiti village, it is now one of the largest sanitaria in the Presidency The population according to the Census of 1901 was only 1,912, but thus enumeration was made in the cold season, before the influx of the numerous hot sesson various and their following had begun Kodaikānal was constituted a municipality in 1899 The municipal receipts and expenditure in 1903-4 were Rs 10,700 and Rs 9,900 respectively, most of the former being derived from the taxes on land and houses. A scheme for supplying the place with nator, at a cost of Rs 63,000, is under consideration. The station contains three churches, a school for European boys and guls managed by the American Museum, and a municipal hospital

The sanstarms stands about 7,000 feet above sea level. The houses of the European residents are picturesquely grouped about a natural theatre of hills surrounding an artificial lake which has been constructed at the bottom of a beautiful little valley, or on the cliff which overhangs the ghost road leading up from the low country from Persyakulam. The temperature of the station is similar to that of Ootacamuum, but somewhat

milder, and, as the rainfall is lighter and the atmospheric conditions more equable than those of the Nilgins, the climate of the place may be said to be one of the best in India Round about Kodaikānal are greasy rolling downs, with beautiful little woods nestling in their hollows and perennial streams flowing through them, very similar to, though some what steeper than, those about Ootscamund. The place is thus capable of considerable extension, and its development is at present mainly retarded by the lack of easy means of communication with the low country and the galway journey from the nearest milway station. Ammayanayakkanur on the South Indian line, to the foot of the hill where the bridle-path up the ghats begins a distance of 33 miles, is made in bullock carts. The bridle path makes an eacent of about 6 eco feet in 11 miles, and 15 quite impracticable for any wheeled vehicles. Visitors have either to ride or be carried. up in chairs. The want of a cart road also occasions difficulties m bringing up articles from the low country. A driving road through the lower Palms and a light railway through the Permakulam valley have been suggested as means of improving these communications, and a trace for a ghat road from the Palm side has been made out. Want of funds has prevented. its execution

Near the station is the Kodaikanal Observatory, which is placed 7,700 feet above sea level. Under the scheme for the reorganization of Indian observatories which came into operation in 1889, the chief part of the Madras Observatory was transferred to Kodaikanal, the place being preferred to Ootaca mund on accound of its greater freedom from must and cloud, and the former Government Astronomer became Director of the Kodaikanal and Madras Observatories. The appliances and powers of this observatory are now directed to the prosecution of inquiry in the sciences of terresimal magnetism, meteorology, and seismology, and to astronomical observations for the purpose of time-keeping, but chiefly to the important subject of solar physics.

About 1,000 feet below Kodarkānai, at Shembeganur, is a Jesust college containing 65 students, who undergo a course of training for seven years in preparation for the presthood

Madura City — Head quarters of the District and takis of the same name, Madura, intuited in 9°55 N and 78°7' E, on the south bank of the Vaugus river, and on the main line of the South Indian Railway, 345 miles from Madura city. A branch railway has recently been opened to Mandapam on the end of the tongue of land which runs out into the sea to meet the island of Pannan. The population in 1871 was 51,987, in 1881, 73 807, in 1891, 87,428, and in 1901, 105,984. It is now the second largest town in the Presidency. Of the total inhabitants in 1901, 93, 103 were Hindus, 9,122 Musulmins, and 3,750 Christians. Being the District head quarters, it contains the usual offices and staff. Most of the residences of the European officials were formerly in the city itself among insunitary surroundings, but of late years dwellings for some of them have been constructed in a higher and healthier situation on the opposite bank of the Vaigni

The history of the city is largely that of the District, the religious and political life of which has from time immemorial centred mut. The earliest mention occurs in the times of the ancient Panthas, some centuries before the Christian era, and the place reached the culturation of its prestige in the middle of the seventeenth century under the Nask kings who contributed so much to its architectural adornment. Little is known of its early history The Sthale Pursua (local chronicle) preserved in the great temple gives a mythical account of the foundation of that building and of the town but the muts which enshroud the origin of the place hardly lift for any length of time until the fourteenth century, when (like the rest of Southern Inda) Madura was subjected to an inroad from the Muhammadans of the north They seem to have treated its inhabitants with the greatest cruelty, and they sentenced the great temple of the city to destruction. The outer wall, with its fourteen towers, was pulled down, and the streets and buildings which it protected were destroyed. The two shrines of Sundareswara and Minkhahi were, however, spared people of Madma were at last freed from the yoke of foreign despotism by Kampana Udaiyar (1372), and after the expulsion of the Mussimans the priests of Siva reguned their revenues and rebuilt the four lofty governors or tower gateways which now stand in the outer wall of the temple. The middle of the anticenth century asw the foundation of the Naik dynasty already referred to, and the sakesre stambke mentapess or Hall of a Thousand Pillars, one of the principal structures in the building was erected by Arya Naik Mudah, the general and minister of Varwanatha, the first ruler of that line. The temple forms a parallelogram 850 feet long from north to south by 750 feet broad, surrounded by nine growners, one of which 18 150 feet high. These are conspicuous features of the land. scape for miles around. The building is profinely ornamented.

with sculpture and paintings, and owns a large number of valuable jewels. The groups of figures carved from single huge stones in the Hall of the Thousand Pillars and elsewhere are marvels of industry and elaboration. The temple a sacred to Siva in his form Sundareswara and to the local goddess Minakahi.

The other important buildings of Madura are all associated. with the name of Tirumaha Nauk, who reigned from 1623 to 1650. The chief of these is his palace, the most perfect relic of secular architecture in the Madras Presidency The District Court and other offices are now located in this building, which has been successfully restored by Government. The main structure consusts of two parts, an open court and a lofts hall The former measures 244 feet east and west by 142 feet north and south, and is surrounded on all sides by arcades of very great beauty. The pillars which support the arches are of stone, 40 feet to height, and are joined by foliated brick arcades of great elegance of deagn. The whole of the ornamentation is worked out in the exquisitely fine stucco called changes, made from shell lime, which is characteristic of the Presidency On one side of the court stands an apartment which was formerly the throne room of the palace. It is an arcaded octagon, covered by a dome 60 feet in diameter and the same in height. On another side is a splendid hall 120 feet by 67 feet and 70 feet high to the centre of its roof, one of the chief peculiarities of which is the resemblance of its style to Gothic architecture. Next in importance to this palace is the Vasanta or Pudu Mantapam, which is said to have been built as a on nmer retreat for the god Sundareswara. It consists of a hall 333 feet long by 105 feet wide. The roof is flat and rests on four rows of stone pillars, all of which are different in design and are elaborately decorated with the characteristic images and emblems of the Hindu religion, life size figures, and conventional carving. On the northern bank of the Vaigur stands the Tamakam, a building of quaint semi Moorish architecture. said to have been erected as a pleasure house from which to snew combats between wild beasts. It is now the official rendence of the Collector Lastly, the Teppakulam, a great tank about a mile and a half east of the town, is also assumed to the time of Tirumala. This reservoir is a perfect square, measuring 1,200 feet each way. Its sides are faced with granite and surmounted by a handsome pampet, also of granste, beneath which runs a continuous paved gallery. In the centre rues a square uland with a lofty domed temple in the middle

and a truy shrine at each corner. Once a year the tank is illuminated by 100,000 lights

Madura city was constituted a municipality in 1866. The receipts and expenditure during the ten years ending 1903 3 averaged Rs 1,49,000 and Rs 1,74,000 respectively. In 1903-4 the income was Rs 2,32,000, including water tax (Rs 28 000), the tax on buildings (Rs 57,000), tolls (Rs 26,000), and the tax on professions (Rs 12,500). The chief items in the expenditure, which amounted to Rs 2,18,000, were water supply and conservancy (Rs 70,000) and medical services (Rs 17,000). The water works, which derive their supply from underground springs in the bed of the Vagai river, were completed in 1894. I stimates for increasing the quantity of water available by constructing a receiving gallery across the river are under consideration. A scheme for the dramage of the central part of the town has also been drawn up

Madura is the industrial and educational centre of the District. Its chief industry is wearing. The silk weavers, called Pathullarans, are immigrants from Gujarat and speak a dialect of Gujarati. It is said that their forefathers were induced to settle in Madura by Tirumala Naik. They claim to be Brish mans, and call themselves by Brahmanical titles. The women and children are employed in the preliminary operations of preparing the thread and warp, while the men do the dyeing and the actual weaving. They make pure silk fabrics and also cloths of mixed silk and cotton. The number of looms at work is about 2,000.

The Madura Mills Company, established in 1892, employs 1,760 hands in its steam cotton spinning mill. The daily output of yarn averages 16,000 pounds. Of the raw material five maths is grown in India and one sixth is imported from Egypt. A fine variety of yarn made here in dyed turkey red and sold locally. The coarser counts are mainly exported to China if the rate of exchange for allver be favourable.

The two Arts colleges m the District, the Madma Native College and the American Mission College, are both at Madura like former has 69, and the latter 27, students reading in the higher classes. The Native College took the place of a former Government college, and is now managed by a committee of native gentlemen prended over by the Collector Its school department contains 925 pupils, and that of the Mission College 371. Other large educational institutions are the Setupan high school, now amalgamated with the Native high school, and the American Mission school. The Madura

Technical Institute, maintained by the District board, gives instruction in drawing, carpentry and carving, and blacksmiths' and fitters work, and in the manufacture of articles from aluminum and ratten. The number of pupils is 130, and the work turned out in 1903-4 was valued at Rs 19,000. The technical schools of the District have altogether 245 pupils. A new miniscipal hospital is now being built. The Albert Victor Hospital belonging to the American Mission is an admir ably equipped institution. The town also possesses a materiaty hospital.

Mannar, Gulf of.—A portion of the Indian Ocean bounded on the west by Timnevelly and Madura Districts in the Madura Presidency, on the north by the ridge of rock and island, known as Adam's Bailda, and on the east by the coast of Cevion. It has between 8° and 9° N and 78° and 80° E. Its entreme breadth from Cap's Costonion, the southernmost point of India, to Point de Galle, the southernmost point of Ceylon, is about 200 miles. The gulf abounds in dangerous shouls and rocks at the northern extremity, and is exposed to the fury of both the monstoons, being quite open towards the south west and only partially protected by the Ceylon coast on the north-east.

Melur Town.—Head quarters of the tābut of the same name in Madura District, Madura, situated in 10° 2 N and 78° 20′ E, on the main road between Madura and Trichinopoly. It is a Union with a population (1901) of 10,100, and since the extension of irrigation in the neighbourhood by means of the Periyar Project, the place has risen in wealth and importance as an agricultural centre. The American Mission has a station here.

Palk Strart.—Palk Bay is a gulf lying between the east coast of the Madras Presidency and the northern part of Ceylon, in about 9° and 10° N and 79° and 80° E. It is named after Robert Palk, Governor of Madras (1755-63). The gulf is bounded by Pourt Callburgs and the coast of Tanjore to the northward and westward, by Adam's Brince and the islands at either end of it to the aouth, and by the northern part of Ceylon and the adjacent islands to the east. The Dutch recognised three channels leading between Point Calibrare and the northern end of Ceylon anto Palk Bay, but probably only one of these can be considered use for large ships. This is the Palk Strart. Shoals, currents, sunken rocks, coral reefs, and earthy spits abound on either aide, rendering the passage one of some difficulty and danger. The north east

monsoon often sweeps down the Strut into Palk Bay with great fury, and there is frequently a heavy and confused swell at the southern end near Pannan Island. The effect of the south west monsoon is, however, but little felt

Palni Town.—Head quarters of the table of the same name in Madara District, Madras, situated in 10° 18 V and 77° 31 E, 34 miles west of Dindigul and 69 miles north west of Madura city. The population in 1901 was 17,168. Palni was created a municipality in 1886. The receipts and expenditure during the ten years ending 1902—3 averaged Rs 14,300 and Rs 13,800 respectively. In 1903 4 the income, most of which was derived from tolks and the taxes on houses and land, was Rs 20,400, and the expenditure was Rs 20,000. The chief object of interest is an ancient temple to Subrahmanya, which is resorted to by crowds of devotees from many parts of Southern India and especially from Malabar. The town at present suffers from lack of nulway communication, but several schemes for remedying this are under consideration.

Printer.—The island of Printer is part of the Rammad Estate in Madura District, Madras. Its central point is in 9° 16 N and 79° 18 E, and it lies between the mainland of Madura District on the west and Ceylon on the east, being separated from the former only by a narrow passage or channel which opens on the north into the waters of Palk Strait and on the south into the Gulf of Mariaan. The island is about 11 insless long by 6 wide. The eastern half is merely a narrow strip of sand running down to join Adam's Bridge, and the remainder is based on rock of comal formation, and is chiefly covered by thorny access or by swamp there being little cultivation of any kind. The chief town is Ramsswaram, noted for its ancient temple.

The town of Pämban, which is said to derive its name from the torthous, make like course of the above mentioned channel, which it overlooks, is situated at the western extremity of the mland in 9° 17' N and 79° 14 E, and is one of the two largest seaports in Madura District. In 1901 the population was 3,462 A highthouse rases 97 feet above high water mark, showing a light vanishe at a distance of 12 or 14 miles. It is one of the chief points of departure for emigrants and other passengers to Ceylon, and it also receives the numerous pilgrims who visit the shrine at Rameswaram. The Ceylon Government has an emigration depôt here. The number of passengers and pilgrims who strive at it has increased considerably since the opening of the railway from Madura to Mandapam, on the

mainland opposite the channel. The inhabitants of the town are chiefly engaged as milors, pilots, and divers. The climate is considerably cooler than that of the mainland, and the town was formarly used as a health-resort by European officials. The rains of a Dutch fort are still to be seen.

Plimban Passage or Channel is a partly artificial channel which runs between the western extremity of Pamban Island and the mainland of India, connecting Palk Strait and the Gulf of Managr. It has been deepened by the Government in order to allow see going ships to pass along by this quicker and more sheltered route instead of having to go round the island of Ceylon. Geological evidence tends to show that in former times the gap was bridged by a continuous isthmus; and until it was deepened the passage was quite impracticable for ships, being obstructed by two parallel ridges of rock reaching just above high-water mark and about 140 yards apart, the space between which was occupied by a confused mass of rocks lying for the most part parallel to the ridges in horizontal strata of sandatone formation. The first proposal to deepen this channel for traffic was made by Colonel Mannel Martines. who brought the matter to the notice of Mr. Lushington, then Collector of the Southern Provinces and afterwards Governor Nothing, however, was done until 1822, when of Medras, Colonel De Havilland recommended the institution of a regular survey, which was entrusted to Ensign (afterwards Sir Arthur) Cotton, whose name is honourably associated with other great engineering projects in Southern India. Cotton's coinion was favourable; but other matters diverted the attention of Government until 1828, when Major Sim was instructed to undertake experiments in blasting and removing the rocks. His reports will be found at length in the Journal of the Royal Geographical Society (vol. iv). The first scientific marine survey of the channel was conducted in 1837 by Lieutenants Powell and Ethersey of the Indian Navy, assisted by Lieutenants Grieve and Christopher. The charts made on this occasion still remain the standard authority. Operations for deepening and widening the channel were begun in 1838 and continued for many years. It is now about 80 feet wide, 14 feet deep as a minimum, and 4.232 feet in length, and is used to a large extent by coasting vessels. Navigation through it requires care, as the current is sometimes very strong.

It has now come to be recognized that, if ocean steamers are ever destined to run north of the island of Ceylon, the best route will be a ship canal across the island of Pamban. It has

been already mentioned that the Madum Pamban railway has been carned as far as the point on the mainland which faces Pamban town Proposals are now under consideration to bridge the channel and to carry the rulway across it to Ram eswaram, to cut a canal through Pamban Island large enough to take see going ships, to establish a ship-basin in one part of this canal and connect it with the rulway and eventually to continue the railway across Adam's Bridge to Ceylon of these schemes have not yet been worked out but it is anticipated that the completion of the first part of them would result in the creation of a port on the island which would attract much shipping, since the new route would afford a much shorter passage between the southern extremity of the Indian Pennsula and the ports along the north east coast than the present voyage round Ceylon Pamban Island would form a natural breakwater which would enable large ships to anchor m still water during either monsoon—to the north when the south west wind was blowing and to the south during the north east current. There is 6 fathoms of water close to the shore of the island on both the north and the south

Paramagnda Town—Head quarters of the takel of the same name in the Rämnad estate Madura District, Madras situated in 9° 32 N and 78° 36 E, on the south bank of the Vaigna river, on the road from Rämnad to Madura, and one of the more important stations on the railway between these two places. The population in 1901 was 16,134 and is rapidly growing. It is the head quarters of a deputy takellar and of a District Munif. The chief industry is the weaving of silk cloths. Hand painted chimizes used to be made formerly, but the industry is now dead.

Periyakulam Town — Head quarters of the talak of the same name in Madura District Madras attnated in 10° 7 N and 77° 33 E on the banks of the Varahanadi, about 45 miles west of Madura town and 35 miles south west of Dindigul Population (1901), 17 960. The town was created a municipality in 1886. The receipts and expenditure during the ten years ending 1902—3 averaged Rs. 15 600 and Rs. 15 400 respectively. In 1903 4 the income, most of which was derived from tolks and the taxes on land and houses, was Rs. 19,800, and the expenditure was Rs. 20,500. A scheme for supplying water is under consideration. The town is an important centre for the trade of the Kambam Valley, and, being distant only 5 miles from the foot of the ghat by which the ascent is made to Kodanaānat, bas a considerable trade

m grain and fruit with that place and the adjoining hill villages.

Partyar Project. The ... The Pernar ('big river') is a river of Southern India which rises on the western side of the range of the Western Chats, and flows down to the Arabuan Sea. through the Native State of Travencore. The area through which it passes is within the zone of the heaviest minfall in the south of India, and the crops there are grown by the aid of rain alone and without irrigation. Consequently the water of the Perivar for many centuries run uselessly to the sea. The great project to which the river gave its name consists in the construction of a large masonry dam across the upper waters of the river, in Travancore territory, forming a great lake, and taking the water of this lake through a tunnel in the Western Ghitts across to the opposite, or eastern, alope of that range to supply the and areas which he immediately below it on that side. In short, a great river which formerly ran down one side of a mountain range has been bidden to turn back and flow down the other side of it. The lake has an area of 8,000 acres, in Travancore territory, which land has been rented from that State for Rs 40 000 per annum. The height of the dam, which is situated in 9° 32' N. and 77° 7' E , is 173 feet, and it is made of solid masonry throughout. The tunnel through the Ghits is 5,704 feet long, and the open cutting or debouchure on the northern side which leads to it from the lake adds 500 feet to its length. The tunnel proper has an entrance shace as feet wide by 74 feet high and a gradient of 1 in 75, and is drilled through hard grantte. The bed of the Vaigna river is utilized for some distance to carry the water to places where it is wanted, and the scheme includes in addition 36 miles of main canal and 100 miles of destributaries. Up to 1904 the total capital cost of the Project had been on lakes

The scheme was suggested as early as the commencement of last century, but was at first thought to be chimerical. It was revived in 1862, but it was not until 1882 that a beginning was senously made with the preparation of estimates for the project. The success of the work was mainly due to the efforts of Colonel Pennycuick, R.E., C.I.E., Chief Engineer to the Madras Government. It was carried to completion in the face of enormous difficulties, the country being entirely uninhabited and most inaccessible, the chimate infected with deadly malaris, the difficulty of getting labour and transport immense, and many of the technical problems involved in the work were of an entirely new description. The foundations of the dam

were carried away time after time before they had proceeded sufficiently to be out of the reach of floods, and unforeseen difficulties and trials had constantly to be met and overcome. The official *History* of the Project, by Mr A T Mackenzie, one of the staff of engineers who carried it to completion, gives a full account of the undertaking and the manner in which it was effected

It is too soon as yet to judge of the financial result of the Project, as the whole of the land commanded has not yet been prepared for 'wet' cultivation by the ryots and so cannot be supplied with water. At the end of 1903-4 the total area of land irrigated, including second crop cultivation, was 142,000 acres, and the net revenue was Rs 3,55,000, giving a profit of 3 86 per cent on the capital outlay. The total cultivable area commanded by the main canal and its twelve branches is 121,000 acres, including land of all clauses. The supply available is probably sufficient for only about 111,000 acres and the most important problem that now remains is concerned with the extension of the system, by forming a second reservoir in which to store the surplus water which still runs to waste

Rameswaram — Town in Madura District, Madras, situ ated in 9° 17′ N and 79° 19 E, on the island of Pamban Population (1901), 6,632. It contains one of the most venerated Hindu shrines in India, which was founded, according to tradition, by Räma himself as a thank offering for his success in his expedition against Rävana, the ten headed king of Ceylon, who had carried off his wife, Sita. For centuries the temple has been the resort of thousands of pilgrams from all parts of India, and until recently they had to travene on foot the inhospitable wastes of the Rāma and Estate which separated it from the nearest railway station at Madura. The pilgramage is now rendered easy by the railway which has lately been built from that place to Mandapam, a point on the mainland facing the town of Pāmban, 8 miles from Rām exwaram.

The great temple stands on alightly rising ground in the north eastern part of the island. It is in the form of a quad rangular enclosure 650 feet broad by about 1,000 feet long, and is entered by a gateway summounted by a gateway or tower 100 feet high. The oldest portion is built of a dark and hard limestone, traditionally taid to have been brought from Ceylon, while the more modern parts are constructed of a frable sand-stone quarted in the island itself. The inner probusing or

corridor is ascribed to the piety of an early Madura Naik, while the outer maniapass was the work of two of the Rämmed chiefs or Setupairs, with the history of whose line, as the 'lords of the causeway' leading from the mainland to Pämban Liland and the protectors of the pilgrams, the history of the temple has for centuries been intimately connected

Mr Fergusion in his History of Indian Architecture thus describes the building —

'If it were proposed to select one temple which should exhibit all the beauties of the Dravidian style in their greatest perfection and at the same time exemplify all its characteristic defects of design, the choice would almost invariably fall upon that at Rameswaram In no other temple has the same amount of patient industry been exhibited as here, and in none unfortunately has that labour been so thrown away, for want of a design appropriate to its display. It is not that this temple has grown by successive increments, it was begun and finished on a previously settled plan, as regularly and undeviatingly carried out as Tanjore, but on a principle so diametrically opposed to it that, while the temple at Tanjore produces an effect greater than is due to its mass or detail, this one, with double its dimensions and ten times its elaboration, produces no effect externally, and internally can only be seen in detail, so that the parts hardly in any instance aid one another in producing the effect aimed at

'Externally, the temple is enclosed by a wall 20 feet in height with four gopurans, one on each face, which have this peculiarity, that they alone, of all those I know in India, are built wholly of stone from the base to the summit. The western one alone, however, is finished. Those on the north and south are hardly higher than the wall in which they stand, and are conse quently called the ruined gateways. Partly from their form, but more from the solidity of their construction, nothing but an earthquake could well damage them. They have never been raused higher, and their progress was probably stopped in the beginning of the last century, when Muhammadans, Marathas, and other foreign invaders checked the prosperity of the land, and destroyed the wealth of the priesthood. The eastern façada has two entrances and two gepairms. The glory of the temple, however, is in its corridors. These extend to a total sength of nearly 4,000 feet. Their breadth varies from so feet to 30 feet of free floor space, and their height is apparently about 30 feet from the floor to the centre of the roof Rach paller or pier is compound, and richer and more elaborate in design than those of the Parvati porch at Chidambaram, and certainly more modern in date

'None of our English cathedrals is more than 500 feet long, and even the nave of St. Peter's is only 600 feet from the door to the spee. Here the side corndons are 700 feet long.

and open into transverse galleries as rich in detail as them selves. These, with the varied devices and modes of highting. produce an effect that is not equalled certainly anywhere in Indu. The side corridors are generally free from figure sculpture, and consequently from much of the vulganty of the age to which they belong, and, though narrower, produce a more pleasing effect. The central coundor leading from the sanc tuary is adorned on one side by portraits of the Rights of Ramoad in the seventeenth century, and, opposite them, of their secretaries. Even they, however, would be tolerable, were it not that within the last few years they have been painted with a virigarity that is inconceivable on the part of the descendants of those who built this fanc. Not only these, but the whole of the architecture has first been dosed with repeated coats of whitewash, so as to take off all the sharpness of detail, and then painted with blue, green, red, and yellow washes, so as to disfigure and destroy its effect to an extent that must be seen to be believed

I be age of this temple is hardly doubtful. From first to last its style, excepting the old timan, is so uniform and unaltered that its erection could hardly have lasted during a hundred years, and if this is so, it must have been during the seventeenth century, when the Rimnad Rijks were at the height of their independence and prosperity, and when their ally or master, Triumala Naik, was creeting buildings in the same identical style at Maduia. It may have been commenced fifty years earlier (1550), and the erection of its gopurasis may have extended into the nighteenth century, but these seem the possible limits of deviation.

Ramnad Town (Ramanatha puram 'the town of Rama natha) — Head-quarters of the subdivision, samindars, and takul of the same name in Madura District, Madras, situated in 9° zz' N. and 78° 51' E, with a station on the Madura Pamban Railway. Population (1901), 14,546 The town is the head quarters of the divinoual officer and of an Assistant Superm tendent of police, and contains a Protestant church belonging to the Somety for the Propagation of the Gospel, and two Roman Catholic places of worship. It is also the rendence of the Raja of Ramnad, whose palace, a large rambling building, stands at the end of the chief street. It has m the midst of ugly and uninteresting country, and its redeeming point is its climate, which is never very hot and is generally tempered by a breeze from the sea. The town was taken by General Smith in 1772, and was under military occupation in 1792. The fortifications, now destroyed, consisted of a wall 27 feet high and 5 feet thick, surrounded by a fosse. In the centre was the palace of the chiefs.

Sivaganga Town—Head-quarters of the takel and acestsders of the same name in Madura District, Madina, attested in 9° 51' N. and 78° 30' R., about 10 miles from Manamaduras station on the South Indian Railway Population (1901), 9,097. It is a Union and the head-quarters of a deputytakeldar. Brass fancy articles, especially excellent figures of heards, acceptons, and the like, are manufactured. The town is a pleasant place, and in its fertile red soil grow most of the trees and plants of the eastern coast. It contains the palace of the same lessess who now have possession of their estate

Tirumangulam Town.—Head-quarters of the tilist of the same name in Madura District, Madma, situated in 9° 50′ N and 77° 59′ E., on the main line of the South Indian Railway, about 12 miles south of Madura city. Population (1901), 8,894. The town is said to owe its origin to a Vellala colony dating from 1566. It is noted for its dyed clotha, and contains a cotton ginning factory. The air of the place is considered to be particularly favourable to the recovery of persons suffering from asthma.

Tiruppattür Town—Head quarters of the tahti of the same name in the Rämnad subdivision of Madura District, Madris, satuated in 10° 7′ N. and 78° 37′ E. Population (1901), 5,881. Except that it was once the residence of a petty chief and is now the head-quarters of the deputy-to-halidar, it is a place of no particular interest.

Uttamapälaiyam.—Town in the Periyakulam tähik of Madura District, Madres, situated in 9° 49′ N. and 77° so' E, on the Suruli river, about 24 miles south-west of Periyakulam. Population (1901), 10,009 It was formerly the head quarters of one of the ancient pälaiyams or feudal estates of Madura. Since the advent of the water of the Periyar Project the place has risen in importance, being the first large town benefited thereby. It is the bend-quarters of a deputy takitikar.

TINNEVELLY DISTRICT

Madras Presidency which occupies the eastern half of the extreme southern end of the Indian Peninsula. It has between 8° 9' and 9° 43' N. and 77° 12' and 78° 13' E., and has an area of 5,389 square miles, with an extreme length of 120 miles from north to south and a maximum width of 75 miles near the Madura frontier. In shape it is roughly triangular, having the Western & Ghāts as its western and the sea as its eastern and southern boundary. On the north it is separated from Madura District by no natural features, but by a parallel drawn east and west through the town of Virudupatti.

The southernmost hills of the Western Ghāis serve as a natural barner between the west side of the Divirict and the State of Travancore up to within a few miles of Capa Comorns, the extreme southern point of the Indian Pennisula. These hills vary from 3,000 to 5,000 feet in height and are clothed with heavy forest. Agastyawalai, half in Tinnevelly and half in Travancore, is their highest peak, rising to 6,200 feet; it was formerly an important astronomical station. Mahendragiri, another peak 14 miles from Nanguntai, 5,370 feet high, is reputed to be the hill from which the monkey-god Hanuman jumped across to Lanka (Ceylon) when he went to gather news of Sitä, the wife of Rāma, whom Rāvana, the demon-king of Ceylon, had carried off.

From the base of the Ghäts, where the country is nowhere higher than about 750 feet, the District slopes down eastward to the sea. Besides the Ghäts there is no range worth the name except the Vallanitd Hills in the Srivaikuntum tāhtā, which rise abruptly from the surrounding plain to a height of over 1,000 feet and form a pleasing contrast to the level ground around them. Along the base of the Ghäts is a belt from 10 to 20 miles wide of red loam and red sand, and fringing the sea is a strip of sandy soil from 3 to 15 miles in breadth. These two tracts widen out and overlap one another as they go southward, and occupy the whole of the country to the south of Tinnevelly town. Between them,

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to the north, the microening space is occupied by broad plains of black cotton soil

All the overs of the District have their sources in the Ghāta and run eastwards to the sea. The Tamerapanen, the most important of them, ruses on the southern slope of the Agasty amalia peak and, after a south-easterly course of 70 miles, empires itself into the Gulf of Manuar. The Chittar, a much smaller stream, drains the mountains on the western border of the Tenkan takk and yours the Tambrapanen a few miles north east of Times elly town. The Varppar, which uses in the Sankaranaymarkovil Hills, though a stream of considerable use, does not contribute much to the prosperity of the District, as its supply is too sudden and occasional to be of use in irrigation.

The geological basis of the District is a continuation of the gness rock of which the mountains on the west consist the plants this is largely covered by more recent formations, but protrudes through them m molated patches or rounded and often comeal masses, some of which supply excellent stone for building and road making. Of the strata which overlie the gness rock, the principal are first, a quartz, having a considerable percentage of iron, and appearing through the soil in the pale red ridges which are such conspicuous objects m all the talkin bordering the Ghats, accordly, a nodular himestone or handar underlying a poor stony soil, which is chiefly found in the central portion of the District, and, thirdly, andstone alternating with claystone, which forms a coast series and follows the line of the shore at a distance of about to miles. This last originally formed a nearly contimnous ridge rising to about 300 feet, and through this the rivers descending from the Ghatz have cut their way down to the sea. Round about it he the ser tracts, the surface of which counts entirely of blown sand, and which form one of the most peculiar natural features of the District the north, the rock which underlies the plans is covered with a wide aprend of black cotton soil, extending from the Madura boundary southward for about 60 miles and having an average breadth of 40 miles. Lastly, we have the river allowing, which forms a narrow but extremely rich strip on either aide of the Timbrapariu and Chittir nvers

The Dutrict comprises tracts of wide differences in rainfall and elevation, and its flors is consequently varied. Along the sea shore are sait awamps and the red-sand wastes known locally as *term*, and the plants of these differ widely from those of the central plane, which resemble those in the rest of the similar tracts on the east coast. The varying levels of the Ghats each have their own distinctive flora, the most interesting, perhaps, being the heavy evergreen forest. The character istic tree of the planes is the palmyra palm, which covers wide areas to the exclusion of all other trees, and is a notable factor in the economic condition of the country.

On the plans of the District there is little in the way of large game, only antelope and occasional leopards being met with, but on the Ghats occur the wild animals usual in heavy forest of high elevation. The Nilgin ibex is found in several localities along this range.

The principal characteristics of the climate of Tinnevelly are light rainfall and an equable temperature. In the hot months, from March to June, the thermometer rarely rises above 95° in the shade, in the coolest months, December and January, it seldom falls below 77°. The mean temperature of Tinnevelly town is 85°, which is the highest figure in the Presidency. This unenviable pointion is, however, attained less by the heat of its hot weather than by the absence of any really cold sesson. From June inwards, as long as the south west monsoon lasts, the heat in the tracts lying at the foot of the Ghits is sensibly dimmished by the winds and slight showers which find their way through the various gaps and passes in that range

The rainfall is greatest near the hills and least on the eastern side of the District. In Tenkän and Ambäsamudram the maximum is nearly 60 inches, while the minimum is about so inches. In other parts of the District the fall varies from between 40 and 50 inches as a maximum to between 10 and 15 inches as a minimum. The average annual amount received in the District as a whole is about 25 inches, which is one of the lowest figures in the Presidency. But though its rainfall is scanty, Tinnevelly gets the benefit of the two monsoons, as both cause freshes in the Tambraparni. These, indeed, occasionally rise very high and do considerable damage.

Until the eighteenth century the history of Imnevelly is almost identical with that of Madura District, sketched in the separate article on the latter. The capital of the first rulers of Madura, the Pandyas, is reputed to have been at one time within Timnevelly District at Kollian near the mouth of the Tambraparni. Tirumals Naik, the most famous of the Naik dynasty of Madura, built himself a small palace at Sufvilliputture.

In 1743, when the Number of mulk, the Sübahdar of the Deccan expelled the Marithan from most of Southern Indua. Timesvelly passed under the nominal rule of the Nawibs of ARCOT All actual authority, however, lay in the hands of a number of independent military chiefs called poligars, originally feudal barons appointed by the Naik deputies who on the fall of that dynasty had assumed wider powers. They had forts in the hills and in the dense jungle with which the Dustrict was covered, maintained about 30 000 brave (though undescribined) troops, and were continually fighting with each other or in revolt against the paramount power. A British expechiton under Major Heron and Mahfus Khān in 1755 reduced Tunnevelly to some sort of order, and the country was rented to the latter. But he was unable to control the solgars, who formed themselves into a league for the conquest of Madura and advanced against him. They were, however, signally defeated at a battle fought 7 miles north of Tunnevelly the atter failure of Mahfuz's government induced the Madras Government to send an expedition under Muhammad Yusuf, their vepoy commandant, to help him. This man eventually became renter of Timevelly, but rebelled in 1763 and was taken and hanged in the following year. Thenceforth the troops in Timeevelly were commanded by British officers, while the country was administered, on behalf of the Nawah. by native officials. As this system of divided responsibility was not conductee to the general pacification of the country, the Nawib was induced, in 1781, to usego the revenues to the East India Company, and civil officers, called Superinten dents of Assigned Revenue, were appointed for its administration. The British, however, were at that time too busy with the wars with Haidar Ah to be able to pacify the country thoroughly, and the poligies continued to be troublesome Encouraged by the Dutch, who had expelled the Portuguese from the Timpevelly coast in 1658, obtained possession of the pearl fishery, and established a lucrative trade, they were soon again in open rebellion. In 1783 Colonel Fullation reduced the stronghold at Pänjalamkurichi, near Ottappidaram, of Kattahomma Nask, the most formidable of them. In 1797 the saledre, headed by Kattabomma, again gave trouble, joining a rebalbon which broke out in the Ramnad territory In 1700 Seringapatam fell and the Company's troops were at last free to move. A force was sent to Tunnevelly under Mater Bannerman to compel obedience, and the first Poligir War followed. Panjalamkurichi was taken, its pedgür hanged,

and the estates of his allies confiscated. Some of the poligars, notably the chief of Ettatyapuram, helped the Engish. I wo years later, some dangerous characters who had been confined in the fort at Palancottan broke loose and raised another rebellion. The operations which followed are known as the second Poligar War. Panjalamkurichi fell after a most stub born resistance, the fort was destroyed, and the site of the place was ploughed over. The ringleaders of the rebellion were hanged, others who had assisted in it were transported, and the possession of arms was prohibited. In 1801 the Company assumed the government of the whole of the Carnatic under a treaty with the Nawah, making him a pecuniary allowance. Timnevelly thus came absolutely into British hands and from that date its history has been peaceful.

As the reputed seat of the earliest Dravidian civilization the District possesses much antiquarian interest. The most noteworthy archaeological remains are the sepulchral urus found buried in the sides of the red gravel hills which abound in different parts of the District Those at Adichanallur, 3 miles from Scivail untain, the most interesting prehistoric burial place in all Southern India, are noticed in the separate article on that place Kolkai and Kayal, near the mouth of the I ambraparm were the capitals of a later race but nothing now remains to mark their ancient glory. Among the many temples in the District, those at Tiruchendur, Alvir Tiru nager: Srivaikuntam, Tinnevelly, Nanguneri, Srivilliputtur, Lenkan, Papanasam, Kalugumalas, and Kuttalam, deserve special mention. Ancient Roman coins are not uncommon in Improvelly, and those of the old Pandian kings are numerous Some Venetian gold ducats have also been uncarthed in the District

The District contains 29 towns, or more than any other in 7 the Presidency, and 1,482 villages. It is made up of the nine I talkets of Ambasamudram, Nanguneri, Ottappidaram, Sankara myinarkovil, Saittur, Srivaikuntam, Srivaihiputtur, Tenkas, and I innevelly, the head quarters of which are at the places from which they are respectively named. Statistical particulars of these, according to the Census of 1901, will be found on the next page.

The population of the District in 1871 was 1,693,959, in 1881, 1,699,747, in 1891, 1,916,095, and in 1901, 2,059,607. The last total was made up of 1,798,519 Hindus, 101,875. Musalmans, and 159,213 Christians. Between 1871 and 1881, owing to the famore of 1876-8, the population was almost

stationary. During the next ten years the rate of advance was probably slightly abnormal, owner to the usual rebound after scarcity, and in the decade 1801-1901 the increase was about equal to that in the Presidency as a whole. Emigration from the District was, however, considerable during that period Few people move into it, and the proportion of the inhabitants who had been born within it was higher in 1901 than in any of the southern Districts. In density of population it is above the average for those Districts, the Turnevelly and Srivai kuntam täheks support nearly 600 persons per square mile Between 1891 and 1901 the population of the Ambhamudram tāhuk declined, while that of the adjoining area of Nanguneri advanced abnormally. The reason for this was that in the former year the rice harvest in Ambasamudram, which always attracts coolies from Nängunen, was going on at the time of the Census

	5 Yesher of			L		8.3	
Taluk	Are a sq	Town	Village	1 operator	Population Population	Partially possible betann	Nember persons sha nad sa
Settür	560	<u>В</u> і	206	186,694	333	+ 13	17,635
Savillapotitis	585	4	94	204,744	3-1	+ 80	14,463
Timevelly	326	2	134	194 647	493	+ 54	27,632
Senkeraneymar-					ļ	ı	
koul .	717	1	133	272,980	375	; + go	16,5%
Ottappidärsm	1,071	, ± 1	394	358 568	234	+ 48	26,940
Smarkustus	542	7	134	327,434	593	+118	40,538
Amblesandram	481	4	84	181,481			19,996
Testine .	374	3	91	174 430	466	+126	14755
\ingmen.	730	2	231	303,538	277	+ 16 1	16 459
District total	5,289	29	1,491	2 049,607	78 2	+ 78	204 832

The District contains more towns and a larger urban population than any other in Madras. About 23 per cent of the people live in towns, which is more than twice the proportion for the Province as a whole. These places, however, are not large cities. None of them contains more than 50,000 inhabitants, and only 5 out of the 29 possess more than 25,000. These are the four municipalities of Timnevelly (population, 40,469), Palameottah (39,545), the head quarters of the District, Tuticorin (28,048), and Sinvilliputtile (26,382), and the large Union of Rajapalanyam (25,360). Sixteen other Unions have a population of more than 20,000 each. The growth of these towns during the decade 1801-1901 was remarkable. The

population of both the municipalities and the Unions advanced in the aggregate by nearly one-balf. In some cases the increase is partly due to the extension of the official limits of the towns to include suburbs, but such extensions would not have been made unless these suburbs had advanced in populousness and urban characteristics, and the statistics are therefore signs of real growth

Tamil is the prevailing vernacular, being spoken by 86 per cent of the total, but I elugir is the language of 13 per cent, being spoken by more than one-fifth of the mhabitants of the Ottappidaram and Srivilhputtur tabukr and by nearly a third of those of Sattur

The majority of the Musalmans of the District are Labbu 7 traders. Christians are proportionately more numerous (8 per coent of the total) than anywhere else, except in the uniform. They have, however, increased more slowly during the last twenty years than the population as a whole

The great majority of the Hindus are Tamils. The three most numerous castes are the Shanana (204,000), the Pallana (234,000), and the Marayans (211,000), each of which are found in greater strength in Timnevelly than in any other District. The first are really even more numerous than the figures show, as at the Census some thousands entered themselves as Kshatimyas, to which anatocratic body they have in recent years claimed to belong. There can be little doubt that, though large numbers of them now subsist by agriculture and trade, they originally tollowed the despised calling of toddy drawing and in consequence of this the claims to be Kshattriyas and to enter Hindu temples which they have of late years put forward with much tenacity caused great resent ment among the other Hundus of the District, which finally columnated in the Timevelly mote of 1899 referred to below. Their chief opponents in these disturbances were the Marayans, a community of cultivators practically confined to Madura and Tinnevelly, who have a reputation for truculence With the Kalians they gave much trouble during the Poligar Wars, and they still have an unenviable name for their experimess in decoity and cattle lifting. In 1899 it was calculated that, though the Marayans formed only to per cent of the population of the District, they were responsible for 70 per cent, of the dannaties which had occurred during the previous five yours

Larger numbers than usual of the population of Times elly are occupied in toddy drawing and selling, weaving, rice-pounding,

and goldsmith's work, so that the percentage of agriculturists is less than in most Districts. About two-thirds of the people, nevertheless live by the land

Of the total Christian population (1901) of 159,213 as many as 158,800 were natives of India. These belong in about equal numbers to the Roman Catholic Church and the various Protestant denominations Christian missions have existed in Tunnevelly for upwards of three centuries. The history of the Roman Catholic Church in the District dates from 1532, when Michael Vaz afterwards Archbishop of Goa, with a Portuguese force assisted the Paravans (fishermen) along the coast of I'mnevelly against the Musalmans, and subsequently baptized almost the entire caste or about 20,000 souls St Francis kavier commenced his labours among these converts. Not much as known of the subsequent history of the mission till about 1710, which is the probable date of the commencement of the labours of Father Beschi, the celebrated famil scholar and author of the religious epic Tembriani Tinnevelly was always attached to the famous Madura Musion, and much progress was made until the suppression of the Society of Jesus in 1773 by Pope Clement XIV, when matters languished and were only again revived in 1838 under French Jerusts - Totacoran is the largest centre of the mission, containing three fine churches and many thousands of Christians. The musicin has two high schools and more than roo village acnools, besides three convents of Indian nums and three large orphanages

Protestant missions in Tinnevelly began with the visit of the famous Swartz to Palamcottah m 1780 The congregation in those early days consisted of only 39 persons. In 1797 began the movement towards Christianity among the Shanans, which is going on at the present day, and which has done much to rame the members of that caste in many ways. At present about 76,000 Christians are connected with the three missions of the Church of England, the Society for the Propagation of the Gospel, and the Church Musionary Society Including some 15 European ladies, about 35 missionaries are working for these bodies. They maintain 750 village schools with more than 25,000 pupils. They also keep up a second grade college for boys and another (the Sarah Tucker College) for guls, four high schools for boys and two for girls, four normal schools, an art industrial school, and two schools for the blind and the deaf. Eight hospitals are maintained by them for the treat ment of the sick of all classes

Broadly speaking, the northern half of the District consists: of black loam, with a strip of red soil along the foot of the! hills south of Savallaputtur and the southern half consists of a red loam or sand, with a strip of black loam in the valley of the I ambraparm The black cotton soil plam in the north is a deep deposit, overlying a substratum of rock. There is but little irrigation in it, except in parts of Smalliputtur. The black soils of the valley of the Tämbraparni overhe a suff yellow clay or mari which effectually prevents soulage, and which, keeping the water, vegetable matter, and manure in suspension near the surface, is no doubt the cause of the high fertility of that valley Much of the high lying red soil is poor, but in the hollows and along the course of the streams the ground is more fertile. In the south east stretches a tract of country about 40 miles in length known as the 'palmira forest,' where the soil as a deep red loam with a surface of gand. In a few well protected flats the sand merely covers the subsoil, but in the open country it is several feet deep, and in some places blown up into hills 20 feet high. Even where the send 25 deepest, the underlying loam, which is present everywhere, causes palmyra. palms to flourish in hundreds of thom-ands

The prevailing land tenure in the District is rystwars, but a there are also a number of samindaris. The total area is 5,389 square miles, detailed agricultural particulars for the samindaris, however, are not on record, and the area for which accounts are kept is only 3,985 square miles. Statistics of this area for 1903-4 are appended, in square miles.—

I aluk	Arca Shows in Seconds	Forests.	Calcumbie Vante	Caltavated	Irregated
Settur	260		9	814	11
paragripation.	431	73	31	307	80
Imacvelly	318	6	6	147	5-
Sankamaayuuri.ord	464	42	4	198	50
Ottern starem	878	4ª 6	7	314	18
San an American	j.) s	80	10	898	76
Ambasamadram	473	145	1	100	54
Tenkin	207	43	•	741	39
Nabguners	727	86	31	473	68
District total	2.985	437	81	1,084	462

The staple food grams are rice, cholam, cambu, and rags Rice is cultivated on 467 square miles, or 22 per cent of the area cropped, cambu comes next, being raised on 195 square

miles, while cholese and rigs occupy 134 and 71 square miles respectively. Rice is grown on only a comparatively small area in the north eastern takels of Shittir and Ottappadaram Comos is rarely grown in Ambasamudium and not often in Tenkan but elsewhere its cultivation is general and in Sattur and Ottappedaram underpress. Cholam and sam are for the most part grown in Sankaranaymärkovil, Nängunen, and Savilliputtir. Of the pulses, which are found mainly in the southern and south western tildules, home gram us the most important. Nangunen contributes most largely to the area. under this class of grain. Cotton is the principal inclustrial crop, being raised on 365 square miles in 1903-4, and Timnevelly as one of the leading cotton growing areas in the Presidency Senns, for which the Dutrict was once famous, is still cultivated in the Timperelly take. Gingelly is of importance in all the talvas except Sattur and Ottappidaram. The cultivation of the palmyra palm and the gathering and preparation of its products, especially toddy, form one of the most important industries in Thousands of people are entirely dependent on the Dustrict thus tree for their livelthood

The ryots of the Dutnet are generally energetic and in dustrious, those in the northern to hake, owing probably to the c less favourable conditions prevailing there, being more so than their brethren in the south. The advantages of good manure, rotation of crops, &c., are well understood, but no attempt has been made to depart from the old ways, either by introducing new and improved implements or by raising other than the usual staples. An experimental farm has recently been started at Konpatti, in the centre of the northern half of the District, to attempt to popularize the cultivation of better varieties of 'dry' grains by improved methods, but it is too early yet to my how far it will induce the people to move out of the besten track. The ryots are very slow in taking advantage of the provisions of the Land Improvement Loans Act, only Rs 29,000 having been advanced under it during the sexteen years ending 1904. Well sinking is the only work for which loans are sought

There is little or no systematic cattle breeding in the Dutrict. The usual nondescript animals kept by the ryots are allowed to multiply without restriction or selection. Large cattle-fairs are held in various parts of the District, notably at Sivalapers, Kannisen, Kalugumalas, and Muttalapuram. The animals raised in Rajapälaryam and Sivagin are comparatively superior, owing, probably, to the good pasture available at the

foot of the adjorning hills. Pomes of small size are bred in the eastern parts of the Srivaikuntam täluk for drawing the jathus, or springed backney carriages, which are used by the natives all over the District. There are no notes orthy breeds of sheep or goats.

Of the area cultivated in 1903-4 only 462 square miles were I ringated from all sources. Most of this (267 square miles) was watered from about 2,300 tanks (artificial reservoirs) and a considerable portion (120 square miles) from 52,000 wells Nearly all the remainder was supplied from Government canals, chiefly those which take off from the Tambraparni. These impate the main portion of the 'wet' land in the Ambasamidram, Tinnevelly, and Streakuntum takehr and are referred to in the separate article on that river. The Tinkan takek and parts of Tinneyelly are watered from the Chritis Ninguner. is irrigated mainly from tanks, some of which are very large, supplied by streams from the hills. The north western tability of Sankananaymärkoval and Smyilliputtur depend mainly on the north east monsoon, and in them irrigation is almost entirely from tanks fed by jungle streams, the supply in which is generally procurous except in favourable years. The black cotton soil talkhr of Sattur and Ottappidarum contain very little 'wet' cultivation. In the sandy portions of Suvakuntam and Nanguners water can be easily obtained by sinking shallow holes in the ground, but well sinking in the black cotton soil is a costly matter

The only real forests in Tinnevelly are those which clothe I the Ghits on the western border of the District. The approximate area of these is about 520 square miles, of which more than two thirds is Government 'reserved' forest, while the rest belongs to the same start of Singampatin, Settili, and Sivagin Small timber of good quality, such as teal, verges (Pierwarpus Marsupus), &c., is found on the sides of the hills. Owing to their value in protecting the head waters of the rivers and streams, the evergreen forests are very lightly worked

Early in the last century the attention of the Rast India Company was attracted to the alopes of the Ghata as affording suitable sites for the growth of cinnamon, cloves and other tropical products of value, and accordingly in 180s a large number of such plants were put down. These were managed directly by the Company itself for some time, but were ultimately parcelled out among private owners. Coffee planting has been tried for several years on the Tenkisi and Nängunen hills, but has not met with success and the estates are no longer

maintained Oranges, pumplemoties (pomeloes), and mango steems grow on the Kuitiliam hills. An interesting experiment is being carried out in the Srivankuntarii talish, where an area of nearly 22 miles of shifting and (ters) is being gradually reclaimed by the planting of palmyra paims with under planting of term patter (Dolbergia sympathetes).

No inmerals of value have been found in the District Tradition speaks of copper being washed down by the Tambraparni river this probably refers to the great quantities of magnetic iroms and which are brought down from the mountains, but no iron manufacture is carried on, nor have any traces of the existence of such an industry in former days been met with. Small garnets are found on the sea shore near Cape Comorin. Many fine granitoids exist to the south of Palam cottals. Granite, limestone and sandstone are largely quartied for commercial purposes. The fine cream coloured calcureous sandstone quartied at Panamplifus in the Srivaikuntain talish was used in constructing the churches at Mengnanapuram and Mudalur, as well as the Hindu temple at Tiruchendur on the coast. A kind of rock-coral found near Toticorin is largely used in that town for rough building purposes.

Cotton spinning and weaving have long been the leading industries in Tinnevelly. In the early years of last century little raw cotton was exported, but a large quantity was made into cloth in the looms of the District. This local industry has now greatly declined much of the cotton being exported raw to various parts of the world. A considerable portion is, however, spin in the mills at Tuticorin Kospatti, and Papanesian for local consumption as well as for export. At Viravanallur and Kallidaikurichi, in the Ambasamudram takas, there is a thriving weaving industry, most of the sessalse, the national dress in Travancore, sold in that State being manufactured at these two places. A kind of coarse towelling is made at Sriviliputtur and the adjoining villages. Melapalatyam, a suburb of Palamcottah chiefly inhalisted by Labbais is noted for its small cotton carpets, which command a large sale locally.

At Mannarkovil and Vagatrulam near Ambisamudram there is a flourishing brass and bellimetal industry. Reed mats of a peculiarly fine texture are made at Pattamadas near Sermadevi, but the industry is in the hands of a few poor Musakusin families and shows no signs of improvement. Good band made lack of European patterns is manufactured in some of the improvement at some of the improvement and finish of its bullock carts.

A large proportion of the population of Tinnevelly submit by industries connected with the palmyra palm, such as drawing toddy from the tree, boding this down into jaggery (coarse sugar), making mats from the leaves or fibre, and so on. The palmyra industry is in fact the most important in the District, and employs a much larger number of persons than the crafts connected with cotton, though the actual money value of the cotton goods turned out may be greater than that of the produce of the palmyra

There are a large number of steam cotton-cleaning and pressing factories in the District, situated at Tubcorn on the coast, at Papanäsam, and at Sattur, Virudupatti, and Kollpatti m the centre of the cotton growing area. In 1903 the total number of these factories was 16, and they employed more than 1,000 hands. Salt takes the next place. There are ten salt factories in Tinnevelly (those at Tuticorm, Arumuganeri, Kayalpatnam, and Kulasekampatnam being the most important), with an out turn (in 1903) of about 64,000 tons of salt, which brought in a duty to Government of nearly ag lakha. On the coast are also several fish-curing yards under Government super vinon. The immense number of palmyra palms in the District has led to the establishment of three sugar refineries (two in Tinnevelly and one at Alvar Tirunagari) under native management. Owing to financial difficulties, however, these are not systematically worked at present

The chief exports from Tinnevelly are cotton, paggery, (chillies, tobacco, palmyra fibre, salt, dried salt fish, and cattle, 0 and the principal imports are cotton twist and yarn, European piece goods, and kerosene oil. There are three recognized ports, Tuticorm, Kukseksrupatnam, and Kayalpatnam, but the first is the only one which is important. Its trade is noticed in the separate article on that town. There is a considerable export of dired salt fish from the coast to Rangoon, Madras, and Cevion The pearl and chank (Turbinella rapa) fishenes in the Gulf of Manaar are Government monopolies, but the profit is always doubtful and uncertain was once celebrated for its trade in senna. This has now almost thed out, as Egyptian senns is considered better and as less adulterated. A considerable volume of trade, chiefly neefrom the Tämbraparm valley, passes over the trunk road leading from Tannevelly to Trivandrum There are two European exchange banks at Tuticorm, and two similar metitutions under native management at I innevelly. Much of the distributton of the imports and the collection of merchandise for

export is done at weekly markets. Some of these are under the control of the local boards, and in 1903-4 the fees collected at them brought in an income of Rs. 7,500. The trade at the seaports is largely in the hands of the Labbars, but Thiscomi contains the agencies of several European firms

The South Indian Rulway (metro gauge) enters the Dutrict from the north near Virisdopatti, and runs south in an almost straight line to Maniyachi through Sattur and Kodpatti. From Manyachi it turns east to Tuticorin on the court, thus completing through communication between Medias city and the chief couthern port of the Prendency From the same place a railway branches off to Tinnevelly, and on to Shencottah on the eastern frontier of Travancore territory, through the fertile teleks of Ambasamudram and Tenkits. The portion of this last between Tinnevelly and Shencottah was opened in 1902. and has been extended to Omlon on the west coast through the gap in the Western Ghan near Kuttalam. The District board has also recently resolved to levy a cess under Act V of 1884 for the construction of another much needed line, on the metre gange, from Timnevelly to Tiruchendur, a famous Savité shape on the coast

The local boards maintain 831 miles of metalled and 100 miles of unmeralled roads. There are avenues of trees along 889 miles of them. The centre upon which all the main lines of communication converge is Tinnevelly town. The trunk road from Tinnevelly to Madura has lost much of its importance since the opening in 1876 of the South Indian Railway, which runs nearly in the same direction. Another important line of communication is the road from Tinnevelly to Nagarcoil in South Travancore via Nanguners. Most of the trade between Tinnevelly and Travancore used to be carried over this route before the recent opening of the railway to Quilon.

The Datnet generally is not hable to serious droughts, but the northern tables and Nangunen are affected in years of scanty rainfall. Tunnevelly suffered somewhat in the great famine of 1876-8, but the distress was not as severe as in other Datnets. Relief works were started in December, 1876, but they were discontinued in May, 1877, and gratimous relief was given for only a short period. The highest number relieved in any one month was only \$3,000. The distress, however, necessitated the grant of remissions of revenue amounting to \$\frac{1}{2}\$ lakes. Since then the District has suffered slightly from deficient rainfall in several years. In 1891-2 remission of the assessment on universated land to the extent

of nearly Rs 66,000 and on 'wet' land of over 4 lakhs was granted, and about 875 people on an average were employed daily on relief works from March to August, 1891. The recent opening of the Quilon branch of the South Indian Railway, which traverses the whole length of the Ambassimudram and Tenkin takkin, touching all the important towns and centres of trade, will in future facilitate the collection and distribution of grain over all parts of the District

There are four subdivisions in the District, all of which, : except the head quarters charge comprising the tabula of Tinnevelly and Sankaranaymarkovil, are at present managed by officers of the Indian Civil Service. The Tuticorin subdivision comprises the two large talkers of Ottappidarum and Strenkuntum The tabeks of Ninguners, Ambasemudram, and Tenkin, lying at the foot of the Ghata, form the Sermadevi subdivision. The Sattur subdivision formerly under a Deputy. Collector but recently placed in charge of a member of the Indian Civil Service includes the two northern talials of Sattur and Small puttur A taksildar is posted at the head quarters of each tobak and a stationary sub-magnitude also addition, there are deputy takeldar magistrates at Palament tah, Vilātikulam, Tubcorin, Rādhāpuram, Vartināynuppu, and Virudupatti Palamontah is the head quarters of the District Judge, Dustrict Superintendent of police, Dustrict Surgeon, Rescutive Engineer and District Forest officer, and of the Buthop of Transvelly

Civil justice is administered by a District Judge, two Sub Judges—one at the District head quarters and the other at Tuticome—and seven District Munsifs, two of whom are stationed at Timevelly and the other five at Smilliputtur, Saitur, Tuticom, Smalkuniam and Ambasamudram respectively. There are in addition nearly 420 village courts for the disposal of petty suits under Madras Act I of 1889. The District is one of the most hingions in the Presidency, contributing nearly 7 per cent of the total number of suits annually filed.

Besides the Court of Session, the Additional Sub Judge at Tuticomn is also authorised to try criminal cases as Assistant Sessions Judge. The District contributes about 5 per cent of the total number of criminal cases in the Presidency, and has an unenviable reputation for discosty, robbers, and bouse-breaking. The followers of the palgrant (local chieftains) of the Maravan caste used, in the days before British rule, to hve mainly by plunder, and the predatory spirit still survives in their descendants. Associ fees, a relic of the old blackmail

levied by these chiefs are still paid all over the District by villagers as the price of exemption from molestation by these people, except in a few villages which have been strong enough to make a stand against this extortion. A movement to throw off the system as spreading among the people, but experience proves that it is most difficult to eradicate. The antimathy which has long existed between the Marayans and the Shanans. culminating in the unfortunate riots of 1800, has for long been a source of anxiety to the District officials. Special police forces have been temporarily stationed at the centres where disturbances are most likely to arise, and the preventive provistons of the Crimmal Procedure Code have been systematically put into operation. Special schools have also been started in the more important centres of the Maravana, to disseminate education and the principles of honest living among thus casto

No exact details are available regarding the land revenue system which prevailed in Tinnevelly under the Naik Raylis of Madura. It is usually supposed that they were content with one with of the gross produce, but Wilks says that one-third was the usual proportion taken from 'dry' land. There is no doubt their assessments were light in comparison with those of the Musalmans who succeeded them.

The Hindu government was subverted by the Mussimans. between 1736 and 1739 From 1739 to 1801, when the Company finally assumed control of the country, a succession of managers were deputed to administer the revenue of Tinne velly Of these fifteen were Musalmans, nme were Hindus, and two were officers of the Company From 1730 to 1770 the assessment was paid in kind, land watered by the Tambra. parm or from never-failing watercourses being charged twice as much as fields ungated from tanks. There were, however, additional cesses, collected in money, which varied from time to time. In 1770 the system of dividing the crop between the cultivator and the Government was introduced. The latter took 60 per cent of the gross out turn on 'wet' land, after first deducting some small cultivation expenses and money ceases This share was reduced to 50 per cent in 1780, and continued at that rate till 1800

In 1801, when Mr Lushington took charge of the Dutrict on behalf of the Company, he commenced operations with the measurement of all land, both 'wet' and 'dry,' and an attempt at the classification of the latter. Subsequent administration differed according as the land was 'wet' or 'dry'. In the 'wet' villages the system of division of the crop was contimized, the Government share being mused to 60 per cent in 1803 and the other demands continuing as before. The evils of this system (which are described in detail in the Timnevelly District Manual, pp 71-2) led to the adoption, in 1808, of a three years village lease, by which the villages were rented for fixed money payments to their inhabitants. The payments were calculated on the average collections of previous periods, with a deduction to compensate for the undue exactions of the officials of the Nawaha, and a system of monthly metalments was introduced by which the demand was distributed over the eight months between December and September This village lease system was a failure owing to various causes, the chief being a full in the price of grain, and was not continued. In 1813. decembel lesses, based on much the same principles, were introduced into the irrigated villages of the Tambraparni salles, but villages which objected to it were allowed to revert to the system of division of the crop By 1814, only 106 of the 1,177 villages in the valley remained under this latter system, the rest having accepted the decennial lease the Collector recommended a reduction of 12 per cent in the rentals fixed for the decennial lesses in the 'wet' villages. The alteration actually made was the introduction of the olungusystem, which came mio force in 1822 and lasted till 1859 This consisted in the payment to Government of an assumed or estimated share of the produce, the value of which was commuted at a standard price modified by the current prices of the day. It was advantageous to the roots and eventually altogether displaced the system of division of crops. In 1859. the methanfairal system was introduced. This was a modifical tion of the charge method, the variations in the conversion rate according to current prices being abandoned, and a standard price adopted once for all as a permanent convention rate. As prices soon after began to rise, while the fixed rate was low. this alteration was greatly in favour of the ryots and resulted in a rapid increase of cultivation.

The revenue history of 'dry' villages is different. During the time of the Nawaba the renters levied a lump annual assessment on them, which was distributed among the various cultivators by the chief ryots on a classification of the soils of the various holdings. In 1802 Mr. Lushington fixed the rates on these fields by taking the average collections of former years as his standard, and for some years his assessments underwent alternate reduction and enhancement. In 1808 they were

permanently reduced to rates which varied, according to the soil, from Rs 2-5-o to 10 annus per acre, and they remained the same, with a few unimportant alterations, till 1865.

The various experiments above described left the assessment of the land revenue payable by the individual ryot very much to the discretion of the chief inhabitants, and the results were frequently unsatisfactory. The Government accordingly at length resolved to resettle the land revenue on the rystmärs principle. This resettlement was begun in 1865 and completed in 1878, and was ordered to continue in force for thirty years It was preceded by a complete survey of all the land in the District, and, though this showed that the area in occupation was 7 per cent in excess of that shown in the accounts, the ausessment arrived at was 1 per cent less than before average assessment per acre on 'dry 'hand is now R I (mavimum, Rs 5, minimum, 3 annas), and on 'wet' hand Rs 6 (maximum, Ra 12, mmimum, Ra 2) The period of this settlement has already expired, and a resurvey and resettlement was undertaken towards the close of 1904 in the Timevelly, Tenkiss, and Ambasamudram taker. The revenue from land and the total revenue of the District in recent years are given below, in thousands of ropees -

	1 58 0)	1 890 1	2908 4	
Land revenue Lotal revenue	32,45	39,50	84 89	36 16
	33,76	40 48	68-15	58,13

Local affairs are managed by a District board composed of thirty two members and by the four taken boards of I mnevelly, Tuticoum, Sermadevi, and Sattur, the areas under which are identical with the subdivisions of the same same. There are also 36 Unions established under Madria Act V of 1884, of which 22 have a population of more than 10,000 each. Next to Madura, Tunnevelly contains the largest number of such Unions in the Presidency. The income of all the local boards in 1903-4 was Rs. 5,43,000, of which Rs. 2,77,000 was contributed by the land cess and about Rs. 60,000 by tolls. The expenditure in the same year was Rs. 5,30,000, of which Rs. 2,60,000 was devoted to the construction and up-keep of roads and buildings, the other chief stems being education, samistion, and vaccination.

Police affairs, as in other Districts, are managed by a District Superintendent. He is stationed at Palamcottah, and is helped by an Assistant Superintendent at Taticorin and a Special Assistant at Sivakias, who is in charge of the special temporary forces mentioned below and also does general police work. There are 85 police stations and 1,087 constables under 19 inspectors, besides 1,182 rural police under the control of the takesideer. Special temporary forces have been stationed at Sivakias, Koilpatti, Surandai, and Marugalkurichi, in consequence of the Shanan mots already referred to. The District pul is at Palamcottah, and there are 15 subsidiary jula, with accommodation for 255 prisoners.

In the matter of education, Tmnevelly (according to the I Census of 1901) ranks fifth among the Districts of the Presi dency, so per cent of the population (so per cent of males and x 5 per cent of females) being able to read and write Education is most advanced in the tabular of Tenkini, Am basamudram, and Imnevelly along the valley of the Tambra parm, and most backward in the cotton soil portions of the District. The total number of pupils under instruction in 1880-1 was 34,863, in 1890-1, 53,130, in 1900 1, 66,283, and in 1903-4, 73 726, of whom 10,819 were girls March 31, 1904, there were 1,297 primary, 75 secondary, and 11 special schools, bendes 3 colleges. There were in addition. 538 private schools, with 13,196 male and 544 female scholars Of the 1,386 educational institutions classed as public, 2 were managed by the Educational department, 48 by local boards. and 7 by municipalities, 1,052 were sided from public funds, and 267 were unusted. Of the male population of school going age 19 per cent were in the primary stage of instruction, and of the female population of the same age about 6 per cent Among Musalmans the corresponding percentages were 90 About 750 schools are maintained for Panchames or and 8 depressed castes, with 5,600 pupils. Chiefly owing to mission. ary influence, female education is comparatively advanced in Impevelly, there being 1,900 girls in secondary and nearly 8, soo in primary schools. There were also nine girls reading m the collegate course at the Sarah Tucker College at Pilamcottah. The great majority of the guls belong to the native Christian community The two Arts colleges for males are in Timpevelly town About Rs 4,65,000 was spent on education in 1903-4, of which Rs 1,30,000 was derived from fees the total, Rs 2,60,000 was devoted to primary education

There are eleven hospitals and twelve dispensaries in the libraries. Seven of the former and nine of the latter are maintained by the local boards, and the remainder (four hospitals in the four municipal towns and three dispensaries,

two in Tinnevelly town and one in Palameottah) from municipal funds. Reades these, the various mission agencies have established four hospitals and three dispensaries. These institutions have accommodation for 109 male and 73 female in patients. A Local fund hospital for women and children has recently been built at Palameottah. About 339,000 persona, of whom 2,500 were in patients, were treated in the Drivict in 1903, and 10,000 operations were performed. The total cost of all the institutions was R₅ 61,000, which was mainly met from local and municipal revenues, and to a small extent from the income of endowments, and (in the case of mission hospitals) from private subscriptions

Vaccination has always been fairly satisfactorily conducted in Timevelly, and in 1903-4 a large number of operations were performed at the comparatively low cost for each success ful case of 3 annas r pie. The proportion of successful operations per mills of the population was 394, which again was the highest rate in the Presidency except in the Nilgins Vaccination is compulsory in the minimpulation and in 19 out of the 36 Unions.

[Further particulars of Tinnevelly District will be found in the *District Manual* by A. J. Stuart (1879), and in Bushop Caldwell's *History of Tinnevelly* (1881).]

Sattur Subdivision —Subdivision of Timeselly District, Madraa, consisting of the *tālvās* of Sattūr and Srivilli puttur

Status Taluk - Northernmost takes of Tinnevelly District, Madras, lying between 9° s' and 9° 43 N and 77° 43 and 78° o E, with an area of 160 square miles. The table is compare. tively sparsely peopled, the total population in 1901 being 186,694, compared with 184,329 in 1891, or a little more than 330 persons per square mile. It contains three towns, VIRUDU PATTI (population, 16,837) SIVAKASI (13,021), and SATTUR (7.870), the head quarters and 206 villages. The demand for land revenue and ceases amounted in 1903-4 to Rea 68,000. The northern and castern villages are chiefly black. cotton soil, while the southern and south western portions consist of red loam and sand. The only river is the Vampar, which is not of much use for irrigation. Cotion is the steple product, but combs is also largely grown. There is a good deal of careful cultivation of garden crops with well irrigation, but the area of 'wet' lands is small. The Missk includes a considerable number of santindars and man villages, none of which, boxcier, is very large

District, Madras, lying between 9° 17 and 9° 42 N and 77° so and 77° 51 E, with an area of 585 aquare inless. The population in 1901 was 205,745, compared with 190,517 in 1891, or a little more than 350 persons per aquare miles. The label contains four towns, Srivillaputter (population, 26,382), the head quarters, Rajapalaniam (25,360), Settur (14,328), and Varthraminuppu (13,131), and 04 villages. The demand for land revenue and cesses amounted in 1903 4 to Rs 4,11,000. The soils in rather more than half, including the villages lying to the west, belong to the red clay or loam and sand series, while the easterly villages form a portion of the cotton soil plain. The country to the west undulates considerably, owing to the numerous streams which descend from the Western Ghilis and supply a large number of tanks.

Timevelly Subdivision — Subdivision of Timevelly District Madris, comprising the tabula of Timevelly and Sankaranayivarkovil

Tinnevelly Taluk - Taluk in the centre of the District of the same name, Madras lying between 8° 36' and 8° 57 N and 77° 34 and 77° 51 E, with an area of 328 aquare miles The population in 1901 was 194,647, compared with 184,728 in 1891. The demand for land revenue and cesses amounted in 1903-4 to Ra 3 81,000. The talket is the most densely populated in the District, having nearly 600 persons per square mile. It contains 123 villages, besides the two mimicipal towns of Tinnevelly (population, 40,469), the head quarters, and PALANCOTTAN (39,545), situated on opposite banks of the river lambragum. It consists, as respects soil and general features, of two distinct portions namely the valleys of the TAMBE VPARM and Chittir, and the high 'dry land which lies between these rivers and on eather side of Its 'wet land is supplied by means of five channels, the Kodagan, Palayan, Timnevelly, Marudur East and Marudur West channels leading from dams across the former of these About fifteen other channels are supplied by the streams Cuttir The soil of the dry' land is of the red and sandy series, and generally poor

Sankaranaymarkovil Taluk — Think in Tinnetelly District, Madraa, lying between 8° 55 and 9° 25 N and 77° 14 and 77° 52 E, at the foot of the Western Ghlits, with an area of 717 square miles. The population in 1901 was 232,980, compared with 213,799 in 1891, or 325 persons per square mile. It contains two towns, Sivioral (population, 18,150)

and Sankaranativarkovil (16,775), the head quarters, and 123 villages. The demand for land revenue and cesses amounted in 1903-4 to Rs 3,02,000. There are a considerable number of sankindaris in the talka, the largest of which is the Sivigini Estata. It contains soils of both the red and black classes, and depends for its cultivation chiefly on the north-east monsoon, the rainfall during the earlier or south west monsoon being trilling and uncertain

Savagari Estate — A samuelars attracted mainly in the north west of the Sankaranay markoval talkah of Transvelly District, Madras with an area of nearly 125 square miles, excluding 30 square miles of forest on the alopes of the Western Ghats Population (1901), about 58,000. It is one of the ancient estates of the Prendency, and pays a perkharah of Rs 55,000 and land cess amounting to Rs 5,000. About 50,000 acres are under cultivation, of which a little over a fourth is "net," the remainder being dry. The meane of the estate is about Rs 184,000, and at present, owing to the minority of the proprietor, it is managed by the Court of Wards. Swagaris the only town of importance.

Tuticorm Subdivision — Subdivision of Tinnevelly District, Madres, consisting of the Ottappidarav and Srivat LUNTAM tables

Ottappedaram — North east tālad of Tumevelly District, Madras, lying between 8° 41 and 9° 22′ N and 77° 41 and 78 23 E, with an area of 1,072 square miles. The population in 1901 was 358,568, compared with 342,145 in 1891, the density is nearly 335 persons per square mile. The tālad contains two towns, Tunicoria (population, 28,048) and Etiatraparam (8,788), and 394 villages. The demand for land revenue and cesses amounted in 1903-4 to Rs 3,45,000 By far the largest portion is samuedare land, the estates comprised in it including Etiatraparam, the biggest in the District It is almost entirely a wide plain of black cotton soil, though to the west and south a considerable area is red sand and loam. Rainfall is very scanty and there is little 'wet cultivation, but cotton is grown very largely and sent to Tutscoria for export.

Ettalyapuram Estate — A samuadar in Timevelly District, Vadras, situated in the Ottappidaram takes in the north cast of the District. Its area is nearly 570 square miles, and it comprises 374 villages with a population (1901) of 154 000. The principal castes are all I clugus by race. The anecators of the samuadar originally came from Chandraguri in North

Arcot District Kumaramuttu Naik, the fourteenth in descent, migrated to Madura owing to the disturbances in the north consequent on the invasion of Alaud-din Khilu. The exile was kindly received by the Pandyan king, who granted him extensive lands. Later on Kumaramuttu was sent down to quell disturbances in Tinnevelly He accordingly proceeded to Sattur and built a fort there, the remains of which can be seen at the present day on the south bank of the Sattar river The present town of Ettatyapuram (population, 8,788), the head quarters of the samendars, as said to have been founded in 1567 Muttu Jaga Vira Rama Naik, the thirty-first somesdar, had a standing army of 6,000 men and rendered help to the Butsh Government during the Poligar Wars of 1799-1801, receiving, in recognition of his services, four out of the aix divisions into which the forfeited estates of the vanquished solvers were divided. The estate consuts mainly of black cotton soil. Out of a cultivable area of 6,000 acres of 'wet,' and 250,000 acres of 'dry ' land, nearly 5,000 acres and 240,000 acres respectively are under cultivation, the 'wet' land being watered by more than 90 tanks The ramfall averages 33 mehes. About 10,000 acres are set ande as game preserves, in which antelope, hares, and partridges abound Jaggery (coarse sugar) is made from the palmyra palm in large quantities, and half the cotion grown m Tinnevelly Dustrict comes from the estate

The estate is held under permanent same sizes tenure, and yields an income of more than 3½ lakhs, while the annual perk hash, or permanent assessment paid to Government, amounts to Rs 1,16,000. About 100 miles of road are maintained by the estate, and it contributes Rs 1,000 annually towards the up-keep of two Local fund hospitals at Ettaryapuram and Nagalapuram. There is a high school for boys and a girls' school at Ettaryapuram town.

Srivalkuntam Taluk.—South eastern taluk of Tinnevelly District, Madria, lying between 8° 17' and 8° 48' N and 77° 48' and 78° 10' E, with an area of 542 square miles. The population rose from 287,603 in 1891 to 321,534 in 1901, the density being nearly 600 persons per square mile. Sinsaikuntam is second only to the Tinnevelly taluk in the literacy of its inhabitants, and it has the largest Christian community (over 54,000) in the District. It contains an unusually large number of interesting places, chief of which are Tiruchtydous (population, 26,056), a famous Saivite abrine on the coast, Kula sekarapatham (19,898) and Kayalpatham (11,746), two

decayed ports with a large population of Musalman Labbaia, SRIVALEURTAM (10,550), the head quarters, ALVAR TIRUMAGARI (6,630), which contains two noted Vaishnavite temples, the two smaller towns of Sattanaulan (6 953) and Sirutyondan allur (6 ogo), NAZARETE, a centile of native Christians, Kayal and KOURAL celebrated as the early capitals of the Pandy an dynasty. and ADICHANALLUR, the most misresting prehistoric burial place. in Southern India. The number of villages is 134. The demand. for land revenue and cesses amounted in 1903-4 to Rs 6,30,000 The again course of black cotton soil in the north, red sand and red clay to the south and west the tern or blown sand, founded upon the mandatone and claystone ridges parallel to the coast, and, hadly, the rich alloyad belt of the TAMBRAPARKI Valley. Four main channels, two on either bank of the river leading from the Marudür and Srivaskuntam dams, irrorate the tabili directly, beside, supplying a large series of tanks. To the south the country is covered with thousands of palmyra palms

Sermidevi Subdivision.—Subdivision of Tinnevelly District, Madria, consisting of the Ambasawudkam, Tankasi, and Navounini taluks

Ambasamudram Taluk — Taluk in Timevelly District, Madras, lying between 8° s9 and 8° 57 N and 77° 12 and 77° 40 E, at the foot of the Western Gl Ets, with an area of 481 square miles The population in 1901 was 182,481, com pared with 193,616 in 1891, the density being 370 persons per square mile. The apparent decrease is accounted for by the presence of a large number of labourers from outside at the time of the Census of 1891. The demand for land revenue and cesses amounted in 1903-4 to Rs 4.74,000. The taluk is mamly composed of the valleys of the TAMBRAPARNI and its affluents, which contain rich areas of rice cultivation yielding two unfailing crops every year. The impation system, which depends upon numerous dams across the Tambraparns, is ancient and very complete. Excepting the river valleys, how ever, the soil is rocky and poor. There are two samuelas is Singampatti and Urkad, both of which are well situated for irrigation, the former from the Manimuttar and the latter from the lambraparn. The valley of this latter river is studded with numerous towns and villages, contaming a large popula tion of wealthy Brahman landowners, to whose enterprise and intelligence the prosperity of the takk is mainly due AMBASAMUDRAM (population, 12,860) is the head-quarters, but VIRAVABALLUR (17,327), KALLIDAIRURICHI (14,913), and SERMĀDEVI (13,474) are larger places. Pāpanāgam, a famonia

place of pilgrimage, is situated within it, and there are 84 other villages.

Tenkāsi Tāluk.— Tāluk in Tunneveily District, Madras, lying between 8° 49' and 9° 9' N. and 77° 13' and 77° 38' E., at the foot of the Western Ghāts, with an area of 374 square miles. The population in 1901 was 174,430, compared with 154,940 in 1891, the density being 466 persons per square mile. It contains three towns, Tankasi (population, 18,128), the head-quarters, Kadaryavallūr (13,939), and Sūrandai (11,810), and 92 villages. In physical features it resembles on a smaller scale the neighbouring taluk of Ambātsmudram. It is well watered by the Chittar, and the affluents of this river are crossed by numerous amounts, or dams, feeding irrigation channels and tanks. The demand for land revenue and cesses amounted in 1903-4 to Ra. 2,87,000.

Nanguneri Taltik. - Southern takek of Tinnevelly Dutrict. Madias, lying between 8° 9' and 8° 38' N. and 77° 24' and 77° 55' E., with an area of 730 square miles. Nangunen is the least thickly peopled Atlant in Timevelly, having a population of 202,528 m 1901, compared with 174,418 in 1891, the density being only 280 persons per square mile. But though this is much below the average in Tinnevelly, it is above that for the Prendency as a whole. There are only two towns, Nan-GUMERI (population, 6,580), the head quarters, and VADARAU VALLIYUR (6,903), both situated on the trunk road between Timpevelly and Trivandrum. The number of villages is 231. The demand for land revenue and ceases amounted in 1903-4 to Rs 3,65,000. The table is composed of red chy, loams. and sands, excepting a strip parallel with the sea and extending some 3 to 10 miles mland, where white sand and see (blown sand) tracts prevail. Palmyra palms abound throughout, and in the east and south are almost the sole means of support of the inhabitants. In the north cast and centre are numerous tanks, both raut-fed and supplied by mountain streams, and a very large number of wells are to be found in the south. The villages at the foot of the Western Ghats, which form the western boundary of the tāluk, are well supplied during both monsoons with water from that range, which is more picturesque here than elsewhere in the District and is clothed with dense forest to the very top.

Adichanalfür.—Village in the Srivaikuntam taluk of Timeveily District, Madras, situated in 8° 38' N. and 77° 50' E., on the right bank of the Tämbraparm river. 3 miles west of Srivaikuntam and 15 miles from Pälameottah. Exceptions

conducted by Mr Rea, the Superintendent of the Archaeological Survey, in 1800 and the following years, have shown that it is the most extensive and important prehistoric burial place as yet discovered in Southern India. Hundreds of ancient sepulchral urns have been unearthed in a long piece of high ground on the south bank of the river, about 100 acres of which have been pow marked off by Government and protected from molestation until the excavations shall have been completed. In this ground, the urns are found at an average distance of only 6 feet apart, and at from 3 to 10 feet or more below the surface. In the centre, about 3 feet of the surface soil is composed of gravel with decomposed quartz rock below The rock has been hollowed out for the urns, a separate cavity being prepared for each end a band of rock left between it and the next. The chambers thus made have preserved their contents in an almost perfect condition, and from those which have so far been opened, the number of which is only a small fraction of the whole, have been taken, besides the bones and skulls of the dead, more than 1,200 objects, including many unique and currous specimens of work in bronze and iron, pottery, and some pure gold ornaments. The iron articles found comprise large bracketed and small hanging lamps, swords, spears, knives, adres, ceits, hammen, rings, bangles, beam rods, tridents, tripoda, axes, arrows, chisela, &c., &c. Those made of bronze include small cups, moulded and ornamented pars, flat bowls and platters, and some currous lamps. Some of the pottery vessels are of exquante shape and moulding, with a fine glass These finds have been deposited in the Madras Museum tradition asserts that near this site was a most extensive town. and the deposits above described seem to support it. Mr Rea thinks that the place might have been a Pandyan town, as from many observations he has made this mode of urn burnd appears. to have been that adopted by the Palleyas and Pandyas. Fur ther excavations are still (1906) going on at Adichanallur, and they will probably eventually lead to more definite results

Alvar Tirunagari — Town in the Srivaikuntam talak of Tinnevelly District, Madras, attnated in 8° 37 N and 77° 57′ E, on the right bank of the Tämbraparni river, 21 miles south east of Timevelly town Population (1901), 6,630. It derives its name from the fact that it was the birthplace of Nammalvar, one of the leading saints of the Vaishnavite sect, in whose honour a large temple has been built. A tree shown in the temple is said to be the identical one under which the saint sat and meditated. The annual festivals in Pehruary and May

attract large crowds from the adjoining Districts. A sugar refinery is working here. Local affairs are managed by a Union penchapet.

Ambisamudram Town—Head quarters of the takek of the same name in Timnevelly District, Mudras, situated in 8° 4s N and 77° 27 E, on the left bank of the Tämbraparni river, 20 miles above Timnevelly town—Population (1901), 12,869—Local affairs are managed by a Union panchayat. There is a high school, managed by a local committee.

Ettary I puram Town - Chief place in the some direction of the same name in the Ottapped ram table of Tinnevelly District, Madras, situated in 9°9 N and 78° E, 10 miles from Koilpatti station on the South Indian Railway. Population (1901), 8,788 Local affairs are managed by a Union panchas at There is a hospital and a high school, and it also contains the residence of the samual in

Kadaryanaltur — Town in the Tenklai talvil, Tinnevelly District, Madras, situated in 9°4 N and 77° 20 E. The population in 1901 was 13 939, weavers forming a large proportion. Local affairs are managed by a Union functional

Kalisdaukurichi — Town in the Ambasamudram takek of Tinnevelly District, Madras, situated in 8° 4x N and 77° 27 E, on the Lambraparut river. It is a Union, with a population (1901) of 14,913. It contains a large number of Brahmans, several of whom are engaged in a flourishing cloth trade with Iravancore. Some of them are also bankers. The fields around the town are well watered and very valuable.

Kalugumaiai (Lalugu, 'an engle,' and malai, 'a hill)—Village in the Ettaryapuram Lauraders and the Ottappideram talul of Tinnevelly District, Madrus situated in 9°8 N and 77°42 E, 28 miles north of Tinnevelly town and 12 miles from Sankaranayinarkovil. Population (1901) 4827. It contains a celebrated rock cut temple dedicated to the god Subrahmanya, and many Jain sculptures and inscriptions. The temple is similar in style to the Siven Pagonas in Chingleput District, and is thought to have been built in the tenth or eleventh century. An annual festival and cattle fair in February attract a large number of people from the southern Districts and even from Mysore.

Kāyal — Village in the Srivaikuntam taluk of Imnevelly Dutrict, Madras, situated in 8° 40 N and 78° 5 L, near the sea, on the northern bank of the Tambrapaim river. It was once a famous port, and was visited in 1292 by Marco Polo, who calls it 'a great and noble city, and notices it at length

(Col Yule's translation, vol u, p 305) A similar glowing account of the place is given by two Persian historians quoted by Colonel Yule—Käyal sprang into existence after Koukai, but the sit of the Tambraparni rumed both places as ports and has now turned them into inland villages—Relics of the ancient greatness of Käyal are, however still discoverable in the shape of broken tiles and remnants of pottery. There are also two old temples with macriptions—An interesting and detailed account of the place will be found in Bishop Cald well's History of Tienspelly

Kayalpatnam —A small port in the Srivalkuntam tiliak of Tinnevelly District, Madras, situated in 8°34 N and 78°8 E, a few miles to the south of the Tambraparm over and 18 miles south of Tuticorin, not to be confounded with Kayal. It is a Union, with a population (1901) of 11,746. Its sea borne trade, which is chiefly in rice and coco-nuts with Ceylon and timber and areca nuts with Travancore, is carried on by the Musulman tribe of Labbars. There is also some trade in palmyra leaf boxes and paggery (coarse sugar), and a large salt factory is at work.

Koripatti.—A station on the South Indian Railway in the Sattur talah of Innevelly District, Madras, situated in 9° 10 N and 77° 52 E. It is an issue village (that is held on favourable tenure) and a Union, with a population (1901) of 3 415, and possesses a dry healthy climate. There is a cotton spinning mili under native management, and a Government experimental farm has recently been opened.

Kolkat (Korkha, Kolcha, Kolchat) -- Village in the think of Strenkuntum, in Timnevelly District, Madran, attrated in 8° 40. N and 78 5 D, 12 miles cast of Srivaikuntam town Popula tion (1901), a 518 Tradition asserts that it was the earliest seat of Dravidian civilization, and the spot where China, CHOLA, and PANDIA, the legendary progenitors of the three famous South Indian dynastics, ruled in common before the two first founded langdoms of their own in the west and north It eventually became the capital of the Pandyan hoe, and was known to the early European geographers as one of the most important trading marts in India. It is mentioned by the author of the Purphu (A D 80) as a celebrated place for pearl fishing, and is also referred to by Ptolemy (a D 130) sea gradually retired from Kolkai, owing to the deposit of the silt of the Timbraparni on the shore in front, and in consequence a new emporium (KAYAL) arose between Kolkai and the sea. This in its turn met with a similar fate, and is

now a small village 5 miles mland. Further interesting particulars about Kolkai are given in Bishop Caldwell's *History of Transvelly*

Kulanekarapatnam — Town and scaport in the Srivarkun tam takak of Tinnevelly District, Madras, situated in 8° 25 N and 78° 3′ E. It is a Umon, with a population (1901) of 19,898. A small quantity of salt, of unusually excellent quality, is produced here. The principal exports are fibre oils and oil cake, jaggery (coarse sugar), and tobacco. The total value of the exports in 1903 4 was 38 lakhs, and of the imports 4.3 lakhs.

Kuttalam -- A famous waterfall and sanitarrum m the Tenkan tilbut of Timnevelly District, Madras, situated in 8° 56. N and 77° 16 E, 36 miles by road from Tinnevelly and 3 from Tenkan Population (1901), 1,107 Kuttalam receives the rain and cool breezes of the south west monsoon through a gap m the Ghitts, and thus, though only 450 feet above sea level. possesses the climate and flora of a much higher elevation The acenery is extremely picturesque, and the falls of the Chittar are held sacred by Hundus A beautifully attracted temple near these falls in dedicated to Kuttälanäthaswami Kutiālam has always been a favounte resort of the European officials of the District, and in recent years there has been a considerable influx of visitors from all parts of the Presi dency during the season, which generally lasts from July to September Several bungalows and rest bouses for natives are maintained, and it is connected by good roads with all parts of the District. The Maharasa of Travancore and the British Rendent in Travancore and Cochin have residences here

Manguneri Town — Head quarters of the takeh of the same name in Tinnevelly District, Madras, intusted in 8° 39 N and 77° 40 E, on the trunk road from Linnevelly to Livan drum, 18 miles from the former Population (1901), 6,580 It contains the math, or religious house, of the Vanamamalai Jin, the head priest of a section of the Tengalai sub-sect of Vaishingvite Brahmans. A richly endowed temple is under the control of this state. Marugalkunchi, near Naogunen, is one of the chief centres of the Maravan caste in the District. A special police force is now stationed here, in consequence of the riots which took place between the Maravani and Shanans in 1899. Local affairs are administered by a Union panelayset.

Manareth —Village in the Smankuntam takek of Tinnevelly District, Madras, situated in 8° 34 N and 77° 59 E, 22 inites from Pilamentiah Population (1901), 4,351, of whom 2,690

were Christians. As its name shows, Nazareth is a mismonary village, and it contains a high school for girls, an art industrial school (one of the most prominent in the Madria Presidency), an orphan asylum, and a mismon hospital. It is the head quarters of a Christian mismon, which numbers 12,000 adherents and includes 2,000 school children. Good hand made lace is manufactured at the art school.

Palamcottah. (Palan ambattan, 'barony fort') — Head quarters of Tinnevelly District, Madras, situated in 8° 44. N and 77° 45 E, in the Tinnevelly talks, on an open plain a mile from the Tambraparus over and at miles from Finneselly town. Palameottah was fortified under the native rulers, and its defences were intact at the time when it passed into the hands of the British. It subsequently formed the base of their operations during the Poligar Wers. The fort was not dismantled until comparatively recently, when the garnson of one or more native regiments which had been stationed here ever since the British occupation was finally withdrawn. The population of the town in 1901 was 39,545, of whom 23,548 were Hindus, 13,052 (or a third of the total) Musalmans, and the rest (2,045) Christians The high proportion of Musilmins is accounted for by the inclusion within municipal limits of the suburb of Melapalayam on the bank of the river, which is inhabited almost wholly by Labbaia, engaged in trade, agriculture, and curpet making. Palameottah was constituted a municipality in 1866. The income and expenditure during the ten years ending with 1902-3 averaged Ra 31 000 and Ra 30,800 respectively. In 1903 4 they were Rs 48,400 and Rs 47,000 Most of the income is derived from taxes on land and houses and from tolls. The town stands in an excellent artuation and possesses a dry and healthy climate, but has no supply of water which can be depended upon throughout the year. Proposals are being made to remedy this defect, but no definite scheme has yet been formulated Being the head quarters of the District, Palam cottain contains all the usual offices. It is also the chief centre of the Christian missions in Southern India, and possesses a large number of educational and other philanthropic mattutions established by the various mission agencies. Of these the Sarah Tucker College for garls and the school for the deaf and dumb deserve special mention. There are also two high schools for boys, besides other secondary schools residence of the Bishop of Timnevelly,

Pinjalamkurichi - Village in the tähul of Ottappidiram,

Tinnevelly District, Madria, intriated in 8° 56 N and 78° 3 E. 2 miles from Ottapoidarum town It was formerly the strong hold of Lattabomma Nath, a robel policie who gave the British much trouble at the end of the eighteenth century The place was first taken by Colonel Fullstrian in 1783 1700, during the first Poligier War, it was again captured by the British and the soligar was hanged. In 1801 it was once more a centre of disaffection, and was stormed after a most stubborn resistance. This contributed largely to the complete subjugation of the poligars of the South. The fort was not only pulled down and levelled to the ground, but the very site was ploushed over and cultivated. Nothing now remains to mark the spot but a few traces of the mound erected as a breaching battery, and the enclosure in the neighbourhood contaming the tombs of the officers and men of the British force who fell in the fight. A few more such tombs are also to be found near Ottappsdaram

Päpanäsam (Papa, 'sm, and nascest, 'destruction') -- A place of pilgrimage in the tabul of Ambasamudram Tinne velly Dustrict, Madras, attuated in 8° 43 N and 77° 22 E, 6 nules from Ambasampham town, at the foot of the Western Ghats, near the point where the Tambraparm descends to the plan. The river debouches from the hills in a magnificent fall, which is regarded as very secred and is annually visited by thousands of pilgrims. Papanasam contains a large Saivite. temple, and four or five chattrams and rest houses. The fish in the river near the temple are supplied with food from the temple funds. A mile below the village is attracted the cotton. spinning factory of the Trimevelly Wills Company, which is worked by water power, generated by means of a channel from the river, and affords employment to 530 hands. The company has a capital of 4 lakha, and turns out annually about 2,500,000 lb of yarn, valued at 9 lakhs

Rajapälaryam — Town in the Srwilliputtur takek of Timne velly District, Madras, situated in 9° 27 N and 77° 33 E 8 miles from Srwilliputtur town. It is a Union with a population (1901) of 25,360 of whom 24,095 are Hindus, 1,014 Musalmans, and 251 Christians. It is mostly inhabited by Räris, a class of people who originally came from Vijayanagar and claim to be Rajputs. Their language 15 Telugu, and they have many poculiar customs. There is also a colony of black single who turn out good work, such as iron safes, vessels, &c. Most of the Rärus live by agriculture, and they also rear cattle which are considered superior to the ordinary breeds.

Sankaranayinārkovil Town—Head quarters of the tiliki of the same name in Timovelly District, Madras, astnated in 9° 10′ N and 77° 32 E. It is a Umon, with a population (1901) of 16,775. A fine temple is dedicated to both I ishou and Siva, a combination which is uncommon. A large cattle fair is held annually in August.

Sattankulass — Town in the Srivaikuntam table of Tinnevelly District, Madras, situated in 8° 27' N and 77° 55 E. It derives its importance from its situation on the border of the great palmyra forest in the south east of the District. Jaggery (charse sugar) goes from here to Palameottah in large quantities. It is a Union, with a population (1901) of 6,953, and is the head quarters of a Roman Catholic mission which possesses a church and some schools. Two miles to the east is Mudalur, one of the chief Christian villages in Tinnevelly District, with a fine Gothic church.

Sattur Town —Head-quarters of the taluk of the same name in Tinnevelly District, Madras, situated in 9° 22 N and 77° 55 B, with a station on the South Indian Railway Sattur is also the head quarters of the officer in charge of the sub-division comprising the Sattur and Srivilliputing takes. It is a Union, with a population (1901) of 7,870, and has a Local fund nospital. There are two cotton pressing and ginning factories, which employ in the aggregate see hands.

Sermadevi — Town in the Ambasamudram tāhuh of Tin nevelly District, Madras, situated in 8° 41′ N and 77° 34 E. It is a Union, with a population (1901) of 13,474 Sermadevi is the head quarters of the divisional officer in charge of the Nanguneri, Ambasamudram, and Tenkisi tahuki, and a station on the recently opened Tinnevelly-Quilon branch of the South Indian Railway. The fields in the neighbourhood are very valuable and the population is entirely agricultural. Three miles distant is Pattamadas, where mats of fine texture are manufactured from reeds by a few Musalman families.

Settlir —Chief town of the samendars of the same name in the south west corner of the Scivilliputtis tābuk of Timnevelly District, Madras, situated in 9° 24' N and 77° 20' E. It is a Umon, with a population (2901) of 14,328. The samendar is of the Maravan caste, and is descended from an old family of salgars. The estate is irrigated by the streams flowing down from the Western Chilis.

Struttondanalfür — Town m the Smarkuntam tähtä of Tunevelly District, Madma, attusted m 8° 39' N and 75° 2' E Population (1901), 6,099

Sivagiri Town —Chief town of the samundari of the same name in the Sankaranayınlırkovil takık of Timnevelly District, Madras, attnated in 9° 20′ N and 77° 26′ E. It is a Union, with a population (1901) of 18,150

Sivakies — Town in the Stitut takes of Tinnevelly District, Madras, intuated in 9° 27' N and 17° 48' E, 12 miles from Sattur, and midway between that town and Strvilhputtur. It is a Union, with a population (1901) of 13,021. Many of the Shinin merchants are well to-do, their trade being chiefly in tobacco, cotton, and jaggery (coarse sugar). Sivakies was the scene of the outbreak of the disturbances of 1899, which arose out of a dispute as to the right of the Shinians to enter the local temple. Several lives were lost in these riots, and a punitive police force of 100 men under a special Assistant Superintendent is now stationed in the town.

Srivalkuniam Town ('Vuhnu's boly heaven') —Head quarters of the tilbul of the same name, in Tinnevelly District, Madras, situated in 8° 38' N and 77° 55 E, on the left bank of the Tambrapara river, 18 miles below Tinnevelly town. It is a Union, with a population (1901) of 10,550. It contains a fine and nohly endowed Vaishnevite temple, the annual festival at winch attracts large crowds. An enclosure in the town surrounded by mud walks and known as the 'fort' is occupied by a peculiar subdivision of the Vellala caste, called the Kottai ('fort') Vellälas, who keep their womenkind strictly secluded within the four walls of the enclosure and marry only Their number, as might be within their own subdivision expected, is dwindling in consequence of this restriction There is a fine from bridge over the dam across the Tämbraparm: at Srrvaukumtam

Srivillipatitär Town (or Nächtyärkovil) — Head-quarters of the takuk of the same name in Tinnevelly Dustrict, Madras, situated in 9° 30′ N and 77° 37′ K., 24 miles from the Sättär railway station on the South Indian Railway. It is a famous place of pilgrimage, and contains a large Vaushnavite temple with a high tower and handsome sculptures. Tirumala Naik of Madura (1623–59), the most famous of his line, built for himself a small palace here, in which the takuk offices are now located. The town was constituted a municipality in 1894. The municipal receipts and expenditure during the eight years after the council was constituted averaged Rs 16,900 and Rs 16,800 respectively. In 1903–4 the meome, most of which was derived from the house and land taxes and tolls, was Rs. 19,000 and the expenditure Rs 17,000. The popula

tion (1901) was a6,38a, committing of a4,943 Hindus, 933 Christians, and 506 Mussimins. A large number of the Brahmans are Varahnavites, and several of them depend on the temple for their hyelshood.

Strandar—Town in the Tenkin tillate of Tinnevelly District, Madres, attented in 8° 59' N and 77° 25 E. It is a Union, with a population (1901) of 11,810. It carries on a considerable trade in pulse and other grain with Tinnevelly town and other places in the District.

Tenkilei Town (The 'south,' and Kan = Benares) — Head-quarters of the taket of the same name in Timevelly District, Madras, situated in 8° 58 N and 77° 19' E, 33 miles from Timevelly town, with which it is now connected by the branch line of the South Indian Railway from that place to Quilou, and on the main road from Timevelly to Travancore through Arankawa. It is a Union, with a population (1901) of 18,128, and is a busy made centre. The place is of great sanctity, as appears from its name, and possesses a fine temple containing some excellent sculptures. Three miles from Tenkia is attusted the famous naterfall and sanitarium of Kutialan

Tinnevelly Town (Tirnesbek)—Chief town of the takk and District of the same name, Madras, attracted in 8° 44 N and 77° 41 E, on the left bank of the Tambraparni river, 446 miles from Madras city by rail. It is the largest town in the District, but the administrative head quarters are at Palam cottah, on the opposite bank of the river.

The early history of the place is not of much note. About 1560 it was rebuilt by Viswanatha, the founder of the Nark dynasty, who also erected many temples in it. The chief shrine at present is a large building dedicated to Siva, which is beautifully sculptured and contains many inscriptions. Mr Fergusson considers (Indian and Eastern Architecture, p. 366) that, though this is among neither the largest nor the most splendid temples in Southern India, it has the rare advantage of having been built on one plan at one time, without subsequent alteration or change.

The population of Tinnevelly rose from \$4,768 m 1891 to 40,469 m 1901 (of whom 34,664 were Hindus, 4,998 Minalmans, and 807 Christians), and it ranks eighteenth among the towns of the Presidency. It was constituted a municipality in 1866. The income and expenditure during the ten years ending with 1902—3 averaged Rs 36,500 and Rs 34,900 respectively. In 1903—4 they were Rs 58,700 and Rs 59,700. The chief sources of income are the house and land taxes, and

tolls. Its limits extend to the bank of the river, but the main town is more than a mile and a half distant and the water supply is inadequate. A scheme for furnishing both Timevelly and Palameottah with drinking water from the Tambraparni has long been under consideration, but financial and other difficulties have prevented it from being matured. The drainage of the town is also faulty. A proposal has recently been made to combine the two municipalities in order to facilitate the undertaking of large public works for their common benefit I here are two second grade colleges for boys in the town one of which, the Hindu College, is managed by a local committee. while the other is maintained by the Church Missionary An industrial school is kept up by the District Society board. Near the Tinnevelly railway station are the pagery (coarse sugar) warehouses of a European firm, from which paggery is sent by rail to their distillery and sugar factory at Nelhkuppam, and two sugar factories under native manage ment The latter, however owing to financial embarassments are not at present working. There is also some timber trade in the town the wood being brought down from Shencottah in Travancore

Thruchendur — A famous place of pilgrimage on the coast of the Streakuntum talack, Tinnevelly District, Madras, intriated in 8° 30 N and 78° 7 E, 32 miles from Palameottah, with which it is connected by a trunk road. It contains a wealthy and much frequented temple built out into the sea and possessing a losty tower which is a landmark for miles to marmers. The floating population in Tiruchendur is always very large, owing to the weekly and monthly feativals at the temple. Out of 26 o 56 people enumerated here at the Census of 1901 more than a third were pilgrims to a feast which was then proceeding, and the town is not normally as populous as this figure would indicate. Tiruchendur is a favourite resort in the hot season, the cool breeze from the sea moderating the heat of the plants. A milway line on the metre gauge is proposed to be constructed to the place from Tinnevelly by the District board.

Tutteorm (Tuttukhuch)—A town and port in the Ottap padirum taked of Tinnevelly District, Madras situated in 8° 48' N and 78° 9 E, 443 miles by rail from Madras city. It is the second scapport in the Presidency and the southern terminus of the South Indian Railway. It was first (about 1540) a Portinguese settlement, was captured by the Dutch about 1658, and taken from the Dutch by the English in 178s. It was restored to the Dutch by treaty in 1785, but retaken in 1795. The

Dutch obtained it again in 1818, but ceded it in 1825 to the English in whose possession it has remained ever since Futicorm seems to have been a most important place for merly, and in 1700 the Jesuits spoke of it as having 50,000 inhabitants.

The appearance of the town and its neighbourhood is not attractive. In parts the soil is so thin that no trees or plants will flourish and elsewhere there is little but heavy sand, on which only palmy in palme and a few bushes grow. The rainfall is scanty the annual average being only 24 inches. The water supply of the town is derived from the Lämbrapaini being brought from a reservoir 4 miles dutant. The local wells are all brackish. An estimate amounting to Rs. 1 15 000 has been sanctioned for an improved scheme for supplying the town with drinking water, and the work has been taken in hand.

Tuticorm is the head quarters of the divisional officer in charge of the Suvaikuntam and Ottappidaram takids, as well as of an Assistant Superintendent of police and an Assistant Commissioner of Salt and Abkari Revenue. The Additional Sub-Judge's court, hitherto located in Palameottah, has also been removed to the town. There is a Government salt factors at Arasach, a village near by

A municipality was constituted in 1866 The income and expenditure during the ten years ending with 1902-3 averaged Rs 45,700 and Rs 37 800 respectively. In 1903-4 they amounted to Rs 54 700 and Rs 61,000. The expenditure includes capital outlay on water supply works, and the excess over receipts was met by a loan from Provincial revenues Most of the moome is derived from the taxes on houses and land and from tolls. The population in 1901 was as 048, of whom Hundus numbered 18,418, Musalmans 1,694 and Christians 7,936 Nearly 8 000, or 30 per cent of the total, are Paravana (fishermen), whose forefathers were converted to Roman Catholicism in a body in the sixteenth century. Thirecorn is their chief town and the rendence of the jate talaway, or head man of their caste. Several European firms have agencies in the place. It contains three Catholic churches, a convent of native mina, and three high schools for boys. There is also an old Dutch cemetery, in which are elaborately curved tombatones. bearing costs of arms

Introom ranks next to Madras City in the Presidency and sorth in all India in the importance of its trade. It possesses a cotton spanning mill and five factories for cleaning and pressing cotton. In 1903-4 the Coral Mills Company employed.

nearly 1,600 hands and turned out 2,600 tons of yarn. The other factories employed in the aggregate nearly 400 hands and pressed nearly 12,000 tons of cotton, bendes considerable quantities of cinchons, palmyra fibre, and 148 hemp

The harbour of Tuticorm is well sheltered, but has only is feet of water at the entrance. Vessels other than country craft have accordingly to anchor from 4 to 5 miles from the land, and their cargo is brought ashore in boats ranging from so to 50 tons burden. About 60 large boats with a total especity of nearly 1,500 tons ply in the port, and 500 bostmen. are always available. The port has an iron screw pile pier, besides a wooden jetty for light work and six private jetties owned by European firms There is a lighthouse on Hare Island, 25 miles from the shore in which is a fixed light visible for 14 miles from all directions seeward. In 1903-4, 1,350 vessels with a total tonnage of 750,000 called at Tuticorin Of these, 450 were steamers with a tompage of 713,000 trade of the port has steadily advanced the value of its exports and imports in 1903-4 amounting to 286 lakhs and 161 lakhs respectively, against 157 lakhs and 68 lakhs in 1891 a principal articles of export are raw cotton, live animals (principally rattle and goats to Ceylon), coffee, cotton piece goods drugs and medicines oil cake, rice, hides and skins, spaces and tea. Raw cotton makes up nearly half the total value of the export trade of the port, which conducts about three fourths of the trade of the Presidency in this article. The value of the cotton exported in 1903-4 amounted to 119 lakhs, against 98 lakhs in 1895-6. It is sent to many parts of Europe and Tuticorin has the largest export of chillies in the Aste Presidency, while it comes pert to Cochin in the value of its export trade in tea. A large quantity of rice is annually sent The cluef ruports are European cotton must and to Ceylon yam and piece goods, petroleum, machinery, hardware and cutlery, areca nuts, and tumber. There is also a very large passenger traffic with Ceylon, the average number of passengers who arrived at the port during the three years ending 1901-2 being 97, 190, and of those who left it 83,402. The coasting steamers of the British India Steam Navigation and Asiatic Navigation Companies call frequently, and there is a daily mail service to and from Colombo in connexion with the South Indian Railway Passengers are conveyed to the boats in steam launches. The port is under the control of a Port officer, who is also the Superintendent of the Pearl and Chank Fisheries. A small steamer is kept up in connection with the

latter A committee for landing and shipping dues has recently been constituted

Vadakku Valikyür (Vadakiu='northern') — Town in the Nängunen tahka of Timnevelly District, Madras, situated in 8° 27' N and 77° 37' E, on the trunk road from Tinnevelly town to Trivandrum, 28 miles from the former Population (1901), 6,903. It has a large tank supplied from streams from the Western Ghäts. The temple dedicated to Subrahmanya is visited by large numbers of people from all parts of the District.

Varithraylruppu — Town in the north-west corner of the Srivillipatiur talak of Timnevelly District, Madras, situated in 9° 38' N and 77° 39' E in a deep bay in the Western Chata. From it a mountain path leads over into the Kambam Valley of Madura District, and another path to the dam of the Perri ar Project on the Travancore Hills. It is a Union, with a population (1901) of 13,131 persons, mainly agricultural, and is the head-quarters of a deputy takaldar and sub magnitude.

Virgurantifur — Town in the Ambasamudian talks of Tinnevelly District, Madras, situated in 8° 42′ N and 77° 31 E with a station on the Tinnevelly Quilon branch of the South Indian Railway. It is a Umon, with a population (1901) of 17,327 A large weaving industry exists and several streets are wholly occupied by the weaver castes. The articles chiefly made are coarse towels and mandate, the national dress of the people of Travancore

Virudupattil.—Town and railway station in the Stitur tālinā of Tinnevelly District, Madma, intrated in 9° 35' N and 77° 57' E, on the Madura border. It is a Union, with a population (1901) of 16,837, of whom a large number are Shānāns. Virudupatti is an active centre of the cotton trade, and possesses five cotton pressing and ginning mills which afford employment to more than 400 hands.

NILGIRI DISTRICT

Milgura, The (Valagers the blue mountains) - A District in Madras, with the exception of Vadras City the smallest! m the Presidency 1 ms area being only 958 aquare miles, or less than that of many taluks. It has between 110 12 and 11° 40 N and 76° 14 and 77° E, and is bounded on the north by the State of Mysore, east and south east by Coim hatore District and west and south west by Malabar consists of two well marked divisions the high, steep-sided plateau formed by the junction of the Ex TFRY and WESTERN GHATS as they run southwards down the two opposite sides of the Indian Peninsula and a lower area adjoining and geographically forming part of the Malabar WANAAD plateau, which is divided into the two Arbeles of Oo accumund and Coonoor, averages 6 500 feet above sea level, and several of its peaks run up to over 8,000 feet. It is upheld by great mastes of hill, which from the plains present almost the appear ance of a wall and its summit consists chiefly of rolling grass; downs divided by narrow valleys, at the foot of each of which is a bog or a stream. There is not a square in le of level ground on the whole of this area, and in the wrinkles of the hills nestle small but beautiful woods, known locally as The lower area adjoining the Wynaad forms the third, or Gudalur, talket, and is often called the South east Nymand It is only 2000 to 3,000 feet above the sex is more level than the plateau, and is covered for the most part with thick forest

Along the south western edge of the plateau runs a line of bold hills called the LUNDAHS, several of the peaks in which are over 8,000 feet in height. Among these is the well known MARURTI PRAK (8,403 feet), one side of which is almost sheer for several hundred feet. To the east, over looking Octacami up, the head quarters of the District and the hot season residence of the Madras Government, rises Dodabatta (8,760 feet), the second highest point in the

¹ Smoe this article was a ritten a very small District of Anjongo smaller than any of the costing Collectorates, was formed in 1906.

Indum Peninsula. To the north the general level is lower, dropping gradually towards the plateau of Viysore

The extreme west of the District, the lower area above referred to, drains for the most part towards Malabar by the Pandi, a tributary of the Beypore river. All the rest drains eventually into the Bhavām. This river runs east wards under the southern wall of the plateau in a deep and malanous valley, and is joined near the eastern limit of the District by the Moyār, which receives the drainage of the northern part of the plateau and forms for many miles the boundary between the District and Mysore State, running in a curious steep-sided trench known as the Mysore Ditch. The Moyār ruses on the slopes of Makurti Peak, and for the first part of its course across the plateau is known as the Pykāra. It drops into the lower country by the two beautiful Pykara falls, not far from Naduvatītam in the north west angle of the plateau, and is thereafter known as the Movar.

Geologically, the high plateau of the District consists of a great mass of the charmochite series of hypersthene bearing granulites, with a few later dykes of olivine norites, well seen at Coonoor, from 1 inch to 10 feet wide. Where the level drops suddenly down in the west towards Malabar, an immediate change occurs, and typical Archaean biotite and horn blendic guersies, with intrusive bands of charmockite and much younger biotite-granite, pegmainte, and banc dykes, make their appearance. The ruby, mica, and quartz-bearing reefs of this part of the District are referred to later under Minerals.

The altitude of the Dutrict naturally causes its flora to differ altogether from that of areas on the plans. Dr Wight's Strategium Neilghorense describes the more important of the plants found. The chief timber trees, indigenous and other, are referred to under Forests below. On the grassy downs occur several varieties of oethids, and wide stretches of land, especially in the neighbourhood of the Kundaha. are covered with Strobilanthes, which once in seven years bursts into a sheet of blue blossom and then dies down colours of its beautiful flowers vary from a pale, bright blue to a deep purple as the clouds drift over them, and form a most striking picture; they may have suggested the name Blue Mountains. In the shelas grow rhododendrous, several species of ilex, Elascarpus, and Eugenia (the varied tints of the leaves of which render these little woods extremely beautiful in the spring), ferms of many varieties, bracken, tree orchids with delicate blossoms, the bill gooseberry, blackbernes of especial historiance, the sweet scented Nilgiri like the alpine wild strawberry, and many other unumal and interesting trees and plants. English flowers (except roses, which seem to object to the high altitude) and vegetables flourish amazingly. Hedges in the gardens on the plateau are often made of heliotrope, fuchsia, and geramium, all of which grow into strong ahrula. English fruits are, however, less successful

Of the large game found on the plateau the Nilgin ibea F (Hemitragus kylocrus) is the most interesting, occurring only on these hills and a few other parts of the Western Ghats arther south Furers and leopards often, and wild dogs occasionally, ascend the plateau from the lower slopes Sambar are common in the sholes throughout the hills especially in the Kundaha Bison (gaus) and elephants are fairly common in the Benne Reserve and in the Mudumalai leased forest in the Lower Wynaed The Vilgin Game Association, of which the Collector is usually the president and the District Forest officer the secretary, does much to prevent promiscuous It expends on watchers and other measures of preservation the income it derives from fees for shooting heenees. Among rarer unimals of the smaller kind may be mentioned the Nilgin langur (Semopitherus johns) and the Indian marten (Mustela florigula) The hill offer in fairly common on the banks of the Pykara river, and Carnatic carp are numerous in the same stream, into which they were in troduced in 1877. Efforts are now being made by the Game Association to stock the rivers with rainbow trout (Sabus unders), all efforts to get the ordinary trout to breed having hitherto proved unsuccessful. Snakes are not so common as m the low country, but forty five non venomous and thirteen venomous species have been noted. Most of these, however were seen in the Wynnad, and on the plateau these pests are The District is especially rich in lepidopters and the Wynaad and the lower slopes of the hills near Mettupalayam are happy hunting grounds for the entomologist

Of migrant birds the woodcock is fairly common on the plateau between the months of October and March. Snipe also visit the bogs at the bottom of the valleys. The edible nest swift breeds in a few places, notably in the cave in Tiger Hill close to the toll bar at the top of the gites roud from Cooncor to Octacamund.

The 'sweet half English air' of the Nilgiris has long been of famous, and has led to the establishment on the plateau of the chief sanitarium of Southern India, Ootacamuan, and

the smaller stations of Coomoon, Wellington, and Kotagini Ootscamund, the highest of these, enjoys an annual mean temperature of 57°, as compared with 83° at Madras, slight frosts occurring in the valleys at night in December and January. The climate has not, however, the invigorating qualities of the air of Europe, and is particularly insuited to those who are liable to disentery or aluggishness of the liver. The lower slope of the hills, particularly the Bissvani Valley, and the Winsard are feverish especially so between March and May. With the burst of the south west monsoon in June the malaria decreases, and the Wynasid then becomes comparatively healthy.

The average annual nunfall of the Nilgins is about 67 inches, but the distribution varies enormously according as each place. is exposed or not to the full force of the south west monacon All the western parts of the District receive the bulk of their rain during this current, and on much of the plateau the five months from December to April are almost rainless its proximity to the west coast the Wymad gets the heaviest fall, the amount registered averaging 161 inches at Devilla and go mehes at Gudalur Naduvattam, the most westerly point of observation on the plateau, receives 202 inches and Octacemend 49 inches Coopear receives 63 and Kotaguri This heavy min frequently washes away portions of the roads leading to the plateau, and when the rack railway to Coonoor was first opened it also suffered considerable perience has now rendered it possible to protect the places most exposed to landslips

Of the early history of the District nothing definite is known It seems, however, probable that the Nilgurs shared in the varied fortunes of the neighbouring District of Combatore With the latter it would appear to have become part of tredominions of the Naik kings of MADURA during the second half of the sixteenth century. In the next century it seems to have passed under the Hundu kings of Mysore Harder Ali (who, during the second half of the eighteenth century, usurped the Mysore throne) and his son Tipu were apparently impressed with its strategical importance, for they strengthened such forts as it possessed to prevent raids from the Wynsad into Mysore and Combatore, which then belonged to them The District fell to the share of the Company on the distribution of Impu's possessions after his defeat and death at Seringapatam in 1799

Apparently the first European to ascend the hills was a

Catholic priest, who was sent up in 1602 by the Bishop of the Synan Christians in Malabar on an evangelistic mession Shortly ofterwards, another party under a Jesuit priest named Jacome Ferrieri went up from Calicut, and the account of their adventures contains not a little information about the tribes of the hills and their manners and customs Englishman to reach the top of the plateau was Buchanan, who went up in 1800 from Devanayakkankota in the Bhavani In 1818 Messay Kindersley and Whish of the Civil Service went up on a shooting trip by much the same route, and their account of the pleasant coolness of the climate first attracted attention to the possibilities of the hills as a syntarium to replace the Cape and Mauritius. The next year Mr. John. Sullivan, then Collector of Co mbatoric went up to the plateau and from that time forward he did everything in his power to render it better appreciated and more accessible Octacamund was formally established as the sanitarium of the Presidency Mr Stephen Rumbold Lushington, Governor of Madras between 1827 and 1830, had much to do with the opening up of the place. 'It will be the glory, said a contemporary writer, 'of Mr Lushington's government, without extravagint hyperbole that he introduced I urope into Ana. for such are his improvements in the Nilgiris

Rude stone carms and barrows abound on the plateau, situated usually in commanding attrations on the summits of 1 hills. A number of these opened by Mr Breeks, the first Commissioner of the Nilgiris, were found to contem burnt bones, pottery, from knives, spear heads &c. The subject is ducussed at length in his Primitive Tribes and Monuments of the Nilgaris, and the finds he made form a valuable portion of the collection of prehistoric objects in the Museum at The best bronzes and weapons were discovered in curps on the northern side of the plateau. Near Kotagan are a number of kistyaens, formed of large stone slabs enclosing a square space or vault, and surrounded by circles of single stones Dolmens similar to the Listvaens, but built above ground, occur in groups at Sholur, Melur, and a few other places on the plateau. Some of the older funeral stone circles built by the aboriginal tribe of Todas have been opened, and found to contain weapons, pottery, &c.

There are three old forts on the Nilgurs—at Udanarkots, Huhkal Durgam, and Malekota. The last is situated 5 miles north west of Ootacamund near the ghāt road running to Sigur, and was milized by Tipu Sultān, who named it Husamabād. In

digging the foundations of Bishopedown House at Octacamund in 1827 a Roman gold com was discovered. This, coupled with the fact that old gold workings have been discovered on the slopes of Dodabetta, seems to point to a very early settle ment of traders and gold-diggers near Octacamund. In the Wynsad, antiquarian interest centres chiefly round the pre-historic gold workings found near Devala. Some of the shafts are 70 or 80 feet deep. Old forest trees are to be seen growing out of them. The existing caute of gold workers are the Kurumbas, but they now confine themselves entirely to allowed washing. There is said to be a tradition among them of an extinct tribe known as Vedaha, who sunk the shafts in remote times.

The people of the Nilgins occupy an exceptional position in many ways. In area the District is the smallest in the Presi dency except Madras City and in population it is altogether the smallest, its inhabitants amounting to less than a fourth of those of Madras City. In 1871 they numbered only 40,501 In 1877 the South-east Wynaed was added to the Nilgum, and the population in 1881 increased accordingly to 91,034 1891 it numbered 99,797, and in 1901, 111,437 allowing for the increase due to the addition of the Wynaid the growth in these thirty years has been at the rate of as much as 74 per cent, which is higher than any other District can show, although in the decade 1891-1901 the decline, caused by the falling off in the coffee planting industry, in the number of inhabitants of the Wynasd or Guddur tabuk (168 per cent) was greater than in any other taken in the Presidency rapid increase in the Nilgins as a whole, which still continues, as due to the expansion of the two hill stations of Ootacamund and Coonoor and the cantonment at Wellington, and to its complete exemption from famine, and has been largely caused by minigration from other Dustricts, notably Combatore Of every 100 of the people living on the Nilgins in 1901 only 50 had been born within the District, while 29 had come from neighbouring tracts and 12 from non contiguous areas. Nilgiri District is still, however the most sparsely peopled Collectorate in the Presidency

It contains two towns, OUTACAMUND (population, 18,596), the head quarters, and COOMOOR (8,525). The Census at both these places was taken in the cold season before the numerous summer visitors and shopkeepers and their servants had arrived, and in the hot months their population is considerably larger. The District is divided into the three seasons.

of Ootscammed, Coonoor, and Gudalür, particulars of which according to the Census of 1901 are given below —

	An a se square	Number of			E,	8 . 5	B
Tulna		Ę	A III Per	Populatio	Popular or	Arcent of the control	Mu br
Ootsesmand G&dalar	440 980	ı	17	37,995 31 149	86 75	+ 20 1	5,1 ₂ 0 T, 1 40
Coonoor .	838	1	20	02 300	200	+ 32 1	6,426
Destruct total	948	2	49	111 427	116	+117	12,916

Of every 100 of the population 82 are Hindus or liminus, 5 are Musalmans, and 13 Christians. Christians are proportionately more numerous than in any other District, and contime to be so even if all the Europeans and Eurasians among them (3,264) are left out of account. They have increased at the rate of 75 per cent since 1881. The Nilgitis contain propor tionately fewer females than any other Madras District there being only 84 to every 100 males. In the low country round Gudahir (the Wynasd), the chief coffee planting centre, there are half as many males again as there are females, the labourers on the estates leaving their womenland behind them when they come up from the plams. On the whole, Tamil is more spoken than any other vertiscular. The District is, however, the most polygiot in the Presidency, eight different languages. -Tamil, Badaga, Kanatese, Malayalam, Telugu, Hindustam, English, and Kurumba, to give them in the order of the frequency of their occurrence—being spoken by at least 3 per cent of the population Badaga is a dialect of Kanarese spoken by the cultivating class of the same name, and Karamba as the language of a forest tribe who hee on the slopes of the hills. In the Coonoor and Ootacamund talkis Tamil and Badaga are each the vernacular of between 30 and 40 per cent, of the people, while in Güdalur takik about a third of the people speak Tamil, a fifth Malayslam, and another fifth Kanarese

Brahmans are scarcer in the Nilgins than in any area except 1 the Ganjam Agency, numbering only 7 in every 1,000 of the c Hindu and Ammest population. The five Hindu castes which are found in the greatest strength are Badagus (34,152), Parsiyans (19,429), Vellälas (4,501), Kurumbas (4,083), and Chettis (2,950). Three of these—the Paranan labourers, the

Vellsla cultivators, and the Chetti traders—are Tamil mmi grants from the low country. The other two have already been Badagas hardly occur away from the Nilgra mentioned platean, and though Lurumbes are found in several other Districts, those of the Nilgurs are quite district from their fellows, hving the wiklest existence in the jungles and speaking their tribal dislect instead of talking Kanarese and subjecting by shepherding like the rest of the class. Two other tribes which are not found off the plateau are the Kotas and the The former are the artisans and musicians of the community, while the latter are a primitive pastoral people, who subsist upon the produce of herds of buffaloes, and owing to their unusual ways and customs (polyandry, for example) have attracted a great deal of attention among anthropologists The latest contributions to the literature regarding these tribes are Mr Thurston's Madrus Museum Bulletins descriptive of them, and The Todas, by W. H. R. Rwers (1906).

The occupations of the people of the Nilgins are in several ways exceptional. They are less exclusively agricultural than those of any District except Madras city, only for per cent living by the land. Of the remainder, initiatally large proportions subsist by domestic service, building, commerce, the transport of merchandise, general labour, and the learned and artistic professions, while the cantonment at Wellington brings up the number of those who belong to the army to a figure beyond the normal. The ordinary native of the plain dislikes life on the cold plateau, and the cost of hving there, necessitating warm clothing and a substantial house, is greater than in the low country. Consequently wages of all kinds rule very high, an ordinary unakilled labourer being able to obtain six annes a day.

There are 14,845 Christians in the District, of whom 11,081 are natives. Two-thirds of them are Roman Catholics, and about a fifth belong to the various Protestant sects. Apparently the first Protestant immuon to start operations on the plateau was the Church Missionary Society, which built a chapel at Ootacamund in 1857 near St. Stepheo's Church. The Society has now a church at Coonoor also, and uses the Government church at Godslür. It has established 13 schools, which have 810 pupils, and its work among the hill tribes is confined chiefly to the Todas and Kurumbas. There is an American Mission chapel at Coonoor, with a resident catechist, and the Basel Lutheran Mission has established settlements at Kaity, Nirkambe, and Kotaguri, with schools at each place. The

head quarters of the latter are at Kaity, in a house in that valle, which was originally built by Lord Elphinstone, Governor of Madras from 1837 to 1843, as a private residence for him self. The Roman Catholics have churches in Ootscamund and chapels at Gudalur and Naduvattam, and maintain eight schools.

Owing to its elevation agricultural conditions in the District is differ considerably from those prevailing in other parts of the Presidency. The most fertile of all the soils is a rich black, loam. On the plateau this is frequently of a dense, peaky nature, and the peat obtained from it is often used as fuel. The brown soil is the next in value. The yellow and red lands are both of inferior quality and require large quantities of minute to render them in any way productive, so they are chiefly used as grazing grounds.

In the Wynaud, cultivation of gram is almost entirely confined to the marshy allieved flats which occur among the low hills and the heavy rainfall allows a considerable quantity of rice to be grown without irrigation. The soil is also so fertile that little manure is required. On the plateau only 'dry (unirrigated) crops are raised. The best of these are found in the more sheltered areas to the east and south

There are no semindaris or man lands in the Vilgiris, its is whole area being held on restours tenure. In the Gudalur talul the sub-tenures resemble the peculiar varieties found in Malabar. Of the 958 square miles of the District, 500, or more than half, are covered with forest, and the extent actually cultivated is less than one third of the whole. No portion is impated. Statistical particulars for the three talular in 1903 4 are appended, in square miles —

Talek	Area above to accounts	Poresta.	Cuk usbia wante,	Caltriated
Octacemend Gudaler Cooncor	440 #80 #38	309 105 86	6 64 17	80 108 119
Detract total	918	500	87	307

The cultivation consists of that conducted by the planters (chiefly Europeans, whose attention is directed to the production of coffee, tea, and cinchona), and that carried on by the ordinary native ryots. More than half of it comes within the former category.

Coffee is the most important of the three crops grown by the planters. It was introduced in 1830 from the Malabar Wynaad By 1863-4 there were about forty estates in various parts of the District. The OUCHTERLOSS VALLEY was opened up between 1850 and 1860, and by 1876 the area under coffee in it exceeded 4,000 acres. At that time coffee commanded high prices in the home markets, and the value of the crop of 1878-9 was estimated at over 11 crores. Owing to the subsequent overstocking of the home markets with Brazilian coffee, prices have since fallen rapidly. The average price was £5 or 6d per cut in 1801, but it fell to £2 131 per cut in 1901. To add to the planters embarramments, leaf disease and the borer, an insect which eats into the heart wood of the trees and speedily kills them, have ruined many properties is a natural consequence many coffee estates have gone out of cult vation. The area under coffee in the District in 1903-4. was returned as 26,000 acres, but a very large portion of this area has been practically abandoned. More than half of it has in the Coonoor tabuk

The area under tea in 1903-4 was 8,000 acres, about equally divided among the three takels. Its cultivation has been steadily increasing. The plant was introduced in 1835, and in 1878 was grown on 4,200 acres. Like coffee growing the industry has suffered from over production. At present there is a tendency to grow for quality rather than quantity, and fair prices are obtained for leaf cultivated and picked on strentific principles, though much of the profit is absorbed by middle men and distributing agencies.

The introduction of the quimme-vielding circhona from South America into India is due to the exertions of Sir (then Mr.) Clements Markham in 1860. The results of his expenments proved satisfactory, and in 1862 and 1863 the Madras Government started two plantations, one on Dodabetta and another, for species requiring a warmer and moister climate, at Naduvattam, on the north western edge of the plateau above Later, two more plantations were started near Güdelur The three existing plantations, Dodabetta, Nadu vattam, and Hooker (so called after the celebrated botanist), cover an aggregate area of 1,630 acres, of which ogo acres are under cinchona. The chief varieties cultivated are C officiable and C successors, with their resultant hybrids. The quinine m manufactured at a factory at Naduvattam, and sold to the public at a low price through the agency of the post offices

There are a number of private cinchona estates on the

Nilgura, but the low prices for bark ruling from 1894 to 1899, which were again due to over production, made the cultivation of the tree unprofitable, and many properties have now been converted into tex gardens. The area of private estates has fallen from 10,373 acres in 1891 to 3,200 acres in 1904. Some of them sell their bark to the Government factory.

Of the crops grown by the native ryots the chief are the millet called same (Panicum miliars), rice korali (another millet Setaria glauca) ragi (Eleunine coracana), burley, potatoes, and some wheat. Rice is grown only in the Wynead, and kerzh, barley, potatoes, and wheat only on the plateau There is also much cultivation of vegetables and fruit for the Ootacamund, Cooncor, and Kotagus markets, and 3 300 acres of private land have been planted with the blue gum tree which is used for firewood. Kerah, rags, sāmas, barley, and potatoes are the staple foods of the lower classes on the The ryots are unprogressive and unenterprising. though careful and industrious. They evince but little inclination to avail themselves of the Lorns Acts Only Re 4 900 has been advanced under the Land Improvement Loans Act, and only Rs 12,700 under the Agriculturists Loans Act the Wymad no advances at all have been taken

The indigenous cattle of the District are of an inferior description, owing firstly to a curious lack of nourishment in the natural grasses (it is said that there is not enough hime in the soil) and secondly to the long dry weather from January to April, during which a hot sun in the day and slight frosts at night combine to kill off the pasture. The best unimals are those imported from Mysore. The buffaloes maintained by the Todas for the sake of their milk are, however, very fine boasts, being much larger than those of the plants, and carrying wide curved horns of a peculiar shape.

A maserable breed of pack ponies is raised in the District, but these animals are useful in a country where the unevenness of the ground makes cart roads a luxury. Sheep and goats are not kept to any great extent, and efforts to introduce English sheep have not so far been successful. The Berkshire breed of pig has been crossed with the China variety with success, but it is difficult to cure bacon and hams properly owing to the absence of real winter weather. Horses have been bred for some years at a private establishment at Musingudi, and some success has been met with. Experiments in mule-breeding were made near Sigur, but have now been aban doned

The forests and plantations are of two classes, which differ widely in character. There are, first, the Reserves and plantations on the plateau, consisting of exotics and indigenous evergreen trees, and, secondly, the decidious forest on the slopes of the hills and in the Wynsad. The natural woods or theirs on the plateau consist of patches of slow-growing trees and evergreens of little commercial value. In the deeper valleys trees in these are often of considerable size, but on the wind swept downs the growth is gnarled and stimited and of little use except as cover for game.

The Government recognized at an early date that the indigenous supplies would require to be supplemented, to meet the growing demand for firewood and building timber in the sanitaria which sprang up on the plateau, and as early as 1856 experiments in the planting of exotic timber were instituted at Jakatala near Wellington. The first plantations were chiefly of Australian acacias, but it was soon seen that the eucalyptus yielded better results than any other species. The Australian blackwood (Acacia melancayles) grows very freely and a a characteristic tree of the stations on the plateau, and the same may be said of the yellow flowered Australian wattle. This latter is, indeed becoming a minusince, as it is of little commercial value and spreads amazingly.

The oldest eucalyptus plantation at Ootacamund is that known as Aramby, along the western and northern alopes of the Club Hill. This was put down in 1863 and the following years. In 1878 careful experiments were conducted by the Forest department, to ascertain whether the area planted with eucalyptus was sufficient to meet the requirements of the towns on the plateau, and the results were reassuring. The present supply is, indeed more than equal to the demand. The chief species worked is *E. globulus*, and depots are maintained for its sale to the public. The total area at present planted with eucalyptus and other exists on the plateau is 3,075 acres, of which 1,696 acres are in the neighbourhood of Ootacamund and 1,379 acres near Coonoor and Wellington

The forests on the slopes of the hills and in the Wynaud comprise the three large Reserves of Mudumalar, Benne, and Sigur. The flust of these, which was leased from a native proprietor (the Turumalpad of Nilametra) in 1862, contains a quantity of teak, blackwood (Delbergia latystia), bamboo, and other trees of commercial value. In Benne forest the growth of teak is even finer, owing to the beavier rainfall. There is a Government plantation of this tree, 244 acres in

extent in this forest, but the absence of any railway renders it difficult to get the timber to remanerative markets. The Signi forest is about 40 square miles in extent, including a sandal wood area of 2,000 acres from which a moderate revenue is derived. The other timber trees in this Reserve are of inferior growth and quality.

The Nilgiris contain fron, kaolin, mica, and gold bearing quarty.) The iron occurs in large masses at Karrashola near Kotagun, * but the absence of fuel in the neighbourhood renders it of no commercial value. Kaolin is found in acveral places on the plateau, but is said to contain too much from to be of economic importance. In the Wynaed mice and gold bearing quarts reefs occur in abundance. The attempts to establish a gold mining industry there on a remunerative basis have hitherto proved unsuccessful. The glowing reports of experts led to the great boom of 1880, when numerous companies, with an aggregate capital of over four millions sterling, were floated on the London market. The results of crushings gave returns so much smaller than had been anticipated that the boom was followed by the equally severe depression of 1884, which led to the winding up of nearly all the companies interested before anything had been achieved. Costly machinery sent out from England was in many cases never erected, and remains over run by rungle or lying on the roadaide to this day. A recent attempt by a local syndicate to employ the improved methods of extraction stace invented has also failed to pay. Investigations lately undertaken by Messra. Hayden and Hatch of the Geological Survey of India go to show that 'with the methods at present available for the treatment of low-grade ores, there as no hope of gold mining in the Wynaud becoming remunerative 1. Mice occurs throughout the Wynaed and particularly in the granutic rocks near Gudalur, but all efforts to extract it in sufficiently large sheets to make it commercially valuable have also, up to the present, proved unsuccessful

The only native industry in the District is the manufacture by the Kotas of rough knives, billhooks, earthenware vessels, for the Badagas and Todas. The Kotas are the only arthur caste on the plateau, and are usually paid in kind for their productions.

Among large industries brewing is the most important, and four breweries are now at work. The Castie Brewery at Aravanghat was started in 1859, and its present annual out turns is about 80,000 gallons, the Nilgin Brewery, Ootacamund,

¹ Monney, Good Story of India, vol. 22221, pt. 2

originally known as the Murree Brewery, has an out-turn of 131,000 gallons; the Rose and Crown Brewery at Karty was established in 1895 and has lately been taken over by a syndicate, and the British Brewery is a small concern recently started at Ootscamund. The Castle Distillery at Aravanghāt, opened in 1886, produces 11,000 gallons of sparst annually.

The Government cordite factory near Wellington commute of two parts: the power works at the foot of the Kärteri falls, the water of which is utilized to generate electrical power for working the machinery; and the factory itself, situated some distance off in the Aravanghat Valley. The buildings belonging to the latter already form a small town, and operations have now been begun.

There are three sods water factories at Ootscamund, two at Coopoor, and one at Wellington. Encalyptus off is distilled in bulk by a first in Ootacamund, the annual output being about 500 gallons. There is a ten factory at Devarianola in the Wysaad, and four others on the plateau at the Luddlesdale, Curron, Glendale, and Kodanild estates. Sulphate of qumine and felvifuge are made in large quantities at the Government factory at Nadayattam from the bark of cinchons grown on the Government plantations and on private estates. The factory has been at work since 1889, and it and the plantations are managed by a special officer called the Director of Government. Cinchons Plantations. It supplies the gumme used in public hospitals, not only in this Presidency but in several other Provinces and Native States Cheap quinme has been brought within the reach of the poorer classes by what is known as the pice-packet system, which was started in 1802. Under this. 7 grain (formerly 5-grain) powders are sold at a quarter anna (or 3 pies) each at all post offices. The great increase m the sale of these packets shows how much they are appreciated, and the net profits of the work at the Government Cinchons. Plantations and the factory since they were started have amounted to about 14 lakhs.

The Nilgans do not produce enough food to support the large foreign non-agricultural population. The area under cereals is only 29,000 acres, and it has been calculated that the average out-turn is not equal to more than four months' supply. Consequently large quantities of nice and ragi are imported from Mysore State through Gidalits, and from Coimbatore District by the ghöst road and the rack railway which start from Mettupklaryam.

Well-attended markets are hold once a week at Ootacamund,

Cooncor, Kotagan, and Gudalür The last of these supplies the Wynand and the Ouchterlony Valley

The principal exports of the District are collec, tes, cinchons bank, quinne, encaloptus oil, and beer. Many of the Wynasd products go down to Calicut. Musalmans control the greater part of the trade.

The only railway within the District is the rack railway from F Mettupalaryam, at the foot of the hills in Combatore District, a to Cooncor Work on this was started in 1891, but in 1895 the original company went into liquidation, and the amets and concession were taken over by a syndicate in London who soon raised the capital regured for its completion. The line was opened for truffic with Coonoor in 1899, and is now worked by the Madras Railway Company under an agreement with the Nilgan Railway Company The line is of metre gauge on the Abt system, which is an improved rack rail modification of the Rigi principle. It is 164 miles long, with a gradient of r in rad for the last 84 miles. The extension of this line to Outacamumd (rrig miles) as now being completed, arrangements being made to render it available for the new cordite factory near Wellington. The terminal station at Ootscamund will be in the centre of the town in the Mettuchern Valley

The total length of metalled roads in the District is 145 miles and of unmetalled roads 479 miles. Of the former, 20 miles are under the charge of the Pablic Works department, and all the rest are maintained by the District board. Avenue of trees are not needed in this temperate climate, and only eighteen miles of road are provided with them. Ootscamund so the centre of the road system, and from it lines run to the various glidts leading off the plateau. Of these the most important is that from Mettipakiyam to Coonoor, which was buth in 1833 and realigned in 1871. From Mettupalaivam another ghat leads northwards up to Kotagur, but is little med except by passengers and traffic connected with coffee and tea attates in the neighbourhood of Kotagin. On the north the Sigur ghat gives access to Mysore, but the road is steep and most of the Mysore traffic comes by way of the Güdakir ghāt At the mnth mile from Ootacamund along this a road branches to the north, leading to the Pykära falls and the tea and cin chona estates at the north-west corner of the plateau. From Gudalur a good road runs to the north east, connecting this line with the Sigur route near Teppakadu. From the same place other roads run north west to Sultan's Battery in the Malaher Wynged, and west, through Devala and Cherembadi,

to Vayitini and to Calicut on the west coast; and a branch goes south-west, via Nädgäni and Karkür, to Nilambür in the plams of Malabar. The old route from Malabar to the hills was by the Supära ghät at the south-west corner of the plateau, but it was always very malarious and is now abandoned and overgrown with thick jungle. On the plateau, bendes the main roads already mentioned, a good gravelled road runs from Ootacamund to Kotagiri and thence to Kodanäd, and another to Deviahola and Melür. From Deviahola a road runs east to Coonoor through Kärten. Coonoor and Wellington are also connected with Kotagiri by a good road.

Actual famine is unknown in the Nilgiris, but high prices caused by scarcity in the low country occusionally cause distress among the poorer classes in the towns.

Up to 1830 the Nilguis formed part of Combatore District A portion of the plateau was transferred in that year to Malabar, but was retransferred to Combatore in 1843, and the Nilguis remained a tiliais of the latter District till 1868. The plateau was then constituted a separate District under a Commissioner and Assistant Commissioner, in whose hands was placed the whole of the judicial work, both civil and criminal, as well as the revenue administration. In 1873 the Ouchterlony Valley was added to the District, and in 1877 the South-east Wynasid was transferred from Malabar and became the Güdakür talais. In 1882 the administrative machinery was reorganized and assimilated to that in other Districts. The Commissioner was replaced by a Collector, and the Assistant Commissioner became a Head Assistant Collector.

The Nilgins comprise only three thinks: namely, Octaca-mund, Coonoor, and Güdalür. The first and last of these form the charge of the Collector, while Coonoor is administered by the divisional officer, whose head quarters, formerly at Devala, were in 1905 transferred to Coonoor. Deputy-trainfalies are in charge of Octacamund and Güdalur, and a trainfalier of Coonoor. Coonoor has also a stationary sub-magnitrate. Unlike other Districts, the Nilgins have no separate Executive Engineer. Public works in the Octacamund and Coonoor tales are in charge of the Engineer of Combatore, those in the Güdalür tales are included in the Malabar Executive Engineer's division, while the public buildings in Octacamund town are looked after by the Consulting Architect.

For cred judicial purposes the Nilgins are included in the jurisdiction of the District Judge of Combatore. In addition to the usual village Munsifs, there are two courts of original

jurisdiction, those of the Subordinate Judge of Ootscamund and of the District Munici of Gidelfir, the latter officer being the deputy takelfier. The former court exercises jurisdiction over the whole District, and hears appeals from the decisions of the District Municipals.

For purposes of criminal justice the District is similarly in cluded in the Combatore Sessions division. The Collector is, however, invested with the powers of an Additional Sessions Judge, and tries certain classes of sessions cases defined by executive order. Others are committed for trial to the Sessions Court at Combatore. The Subordinate Judge, the Treasury Deputy Collector, and the divisional officer are usually first class magnitudes.

Crime is light outside the two municipal towns. Discorties and robbeness are very rare. Coffee-stealing was formerly prevalent in the Wynaud, but the great decline in the coffee industry, coupled with special police measures, has led to the practical disappearance of this form of crime. On the other band, the number of offences committed in the larger towns is great, and, judged by the proportion of them to the population, the District is as criminal as any in the Presidency.

The Nilsma were included in the actilement of Combatore i District (of which they then formed part) undertaken by Major McLeod in 1799 The fifteen rates of assessment fixed as the result of that settlement remained in force until 1862, when, owing to the increased demand for land by European planters and others, attention was directed to the evils arming from certam currons customary provileges enjoyed by cultivators on the hills. The first of these was the black (or shifting) system. under which a patta (the document given by Government to occupiers, setting out the land they hold and the assessment payable upon it) was regarded not merely as entitling its holder to cultivate the plot specified therein, but as permitting him to shift from one place to another, and to retain without payment a preferential tien on plots formerly tilled by him, which he could return to and cultivate in rotation. Another concession enjoyed was the eigen grass or fallow privilege, under which a root was permitted to retain a portion of his holding, not exceeding one-fifth, as fallow, on payment of only one-fourth of the ordinary assessment. A third pecuhanty was the sames: fulls ours, or grazing privilege, which allowed extensive areas to be held as grazing land on very low assessment

In 186s the Government determined to shough the Martin system, and to require the ryot to pay assessment for all the

land which he was entitled to cultivate. The fifteen rates of assessment were abolished and five simple rates were substituted. At the same time the Government abolished a peculiar system in vogue in the Kundaha, under which the so-called patts issued to the ryot was no more than a hoence to him to time a certain number of ploughs or hoes, and left unstated both the extent and the position of the lands to be cultivated. These changes were followed in 1863 by the introduction of the Waste Land Rules, which not only struck the final blow at the black system, but also disposed once for all of the vexed question of the rights of the Todas over lands on the hills.

The position of the Todas as the earliest occupants of the platean had during the first half of the century given use to a claim on their behalf to lordship over the hills. After much discussion it was decided by the Court of Directors in 1843 that no proprietary right over the soil, such as would interfere with the right of Government, could be admitted decision remained in force with certain modifications until the Waste Land Rules were introduced in 1863. The principle was then enunciated, that all lands are waste in which no rights of private proprietorship or exclusive occupancy exist. The Todas were, however, secured from interference in the enjoyment of their mands, the collections of currous wagon roofed huts in which they reside, and 11 acres of land were set apart round each mand for the grazing of their cattle. The amount was increased to 34 acres in 1863. The land thus set apart is now regarded as the malienable property of the Toda community

Under the Waste Land Rules of 1863, land was sold subject to an assessment of Rs a per acre for forest and R 1 per acre for grass land. The assessment on grass land was subsequently reduced to 8 areas, and the rules have been further related by the exemption from assessment, for five years after purchase on the plateau and three years in Wynaed, of land on which certain special products are to be raised.

A detailed survey was begun in 1878, and in 1881 the settlement of the plateau was undertaken, which was completed in 1884. The four old solds, or divisions, were arranged into thirty-six revenue villages, and proper village establishments were organised. No attempt was made to follow the usual method of settlement based on a classification of soils. The assessment was made under special rules adapted to the poculiar circumstances of the country. The average rate of assessment per agree for the whole District, which included

house sites in Ootscamund assessed at Rs to per acre and mining land rated at Rs 4, amounted to nearly 17 annas. The rates varied little from those fixed at the settlements of 1700 and 1862, but the enormous marcage discovered by the survey in the occupied area, together with fresh grants made at the settlement, resulted in raising the revenue demand by Rs 35,000, or 104 per cent. The settlement of the Wynasd was completed separately in 1887. The tenures in this part of the Dustrict resemble those in Malahar, the land for the most part being the january property of certain large owners, who may cultivate or lease it subject to the payment of assessment to the Government. Of the twelve villages formed at the settle ment out of the three assesses or parishes of Nambalakod, Munanad, and Cherankod, eight are still held by private jamens, in the remaining four the jameness right has by process of eachest vested mamly in Government

In the tract of land between the foot of the Sigur ghāt and the Moyar river, forming the aettlement village of Masniguch, the ordinary ryotaars tenure is in force

The revenue from land and the total revenue in recent years are given below, in thousands of rupees —

	tillo-t	189 0-1	1900-1	1904 A
Land revenue Total revenue	\$4	1,67	1 48	1 72
	2,63	5,96	6,34	7 69

Outside the two municipalities of Ootscamund and Cooncor, I local affairs are managed by the District board, composed of sixteen members. Wellington is a military cantonment, under its own cantonment committee. No take boards or Umons have been established. The moome of the District board in 1903-4 was Rs. 1,73,000. Of this about Rs. 1,19,000 was contributed by Government from Provincial revenues, the receipts derived from the land cess (Rs. 16,000), even when added to the large income from tolls (Rs. 34,000), being insufficient to provide for the maintenance of the great length of roads through difficult country which the District possesses. In the same year the maintenance of these cost Rs. 96,000.

For purposes of police administration the Nilgins are instructed to Combatore, and form part of the charge of the Superintendent of police of that District. An Assistant Superintendent stationed at Ootacamund holds immediate charge of the District. The total sanctioned strength of the force is 190,

distributed among 14 police stations and supervised by 3 inspectors, besides 44 village policemen

There are 3 subsidiary pails—at Octacamund, Cooncor, and Gudalur—which provide accommodation for 65 prisoners Long term convicts are sent to the Central pail at Combatore

In regard to education the Nilgma stand second among Madras Dutricts, about 12 per cent of the inhabitants (17 males and 5 females) being able to read and write, and 5 per cent of them knowing English Education is, however, back ward in the Gudahir islast. The total number of pupils under instruction in 1880-1 was 1,534, in 1890-1, 2,938, in 1900-1, 4,520, and in 1903-4, 4,636 On March 31, 1904, there were m the District 88 educational institutions of all kinds, of which 84 were classed as public and 4 as private. The former included 67 primary, 16 secondary, and one training school, and the number of guls reading in them was 908. Of the public institutions a, the male and female branches of the Lawrence Asylum, are controlled by a committee working under Govern ment, 3 are maintained by the municipalities, and 14 by the District board. It is noteworthy that all the secondary schools for boys are English schools, most of them being attached to missionary institutions. The single training school (for masters) as conducted by the Basel Lutheran Mission at Kaity, but is aided by Government. Of the male population of school going age 35 per cent were in the primary stage of instruction, and of the female population of the same age to percent. The corresponding figures for Mussimins were 48 and 24 per cent respectively There are 34 schools for Radagas at which 1,078 pupels received instruction in 1903-4, 3 schools for Kotas with 53 pupils, and one for Todas with 14 pupils. For Panchanus, or depressed castes, to schools are maintained, at which 391 boys and 107 girls were under instruction The Breeks Memorial school at Ootacamund, metitited in 1874 in memory of the first Commenoner of the Nügma, has undergone many vacusatudes and as now managed by the Educational depart ment as a Government school for Europeans and Euramans The endowment is vested in the Treasurer of Chantable Endowments At Coonoor a school was established by Mr Stanes in 1875 for Europeans and Euramans Lawrence Asylum at Lovedale is intended as a home and training school for the children of Ruropean soldiers who have served in the Madras Presidency. It was started in 1858, with funds contributed as a memorial to Sir Henry Lawrence, and in 1860 its control was transferred to Government. In 1871 the

Male Military Orphan Asylum, previously established at Madras, was amalgamated with it, and the combined institution moved into the present buildings at Lovedais. In 1904 the Madras Military Female Orphan Asylum was similarly amalgamated with the girls' branch of the Lawrence Asylum The Asylum now consists of two branches, male and female, under a head master and a head mistress respectively. In addition to an ordinary elementary education, the pupils receive practical teaching in technical and industrial subjects to qualify them to earn a hvelihood when they leave. The meams of the institution amounts to about Rs 1,61,000, of which Rs 48,000 represents the grant m aid from Government, Rs 59,000 interest on investments, and Rs 24,000 the profit derived from the Lawrence Asylum Presses at Madras and Ootacamund The total expenditure on education in 1903-4 was Rs 1,02,000, of which Rs 10,500 was met from fees, and Rs 52,000 of the total was devoted to primary education.

The medical administration is in charge of the District I Medical and Samitary officer stationed at Coonoor, Octacamund 2 forming the separate charge of a Civil Surgeon. Bendes the hospital at the Lawrence Asylum, which is intended only for the inmates of that institution, four civil hospitals are main tained at Ootscamund, Cooncor, Kotagin, and Gudalur, and a dispensary at Pykära. There is accommodation in all these buildings for 149 in patients. In 1903 medical relief was afforded to 36,000 persons (of whom 1,800 were in patients), and more than 700 operations were performed. The institutions at Ootacamund, Cooncor, and Gudalur contain separate accommodation for Europeana, and at Ootacamumd and Gudalur wards for the police are also provided. There is a military hospital at Wellington, with 180 beds. The total expenditure in 1903 was Rs 52,000, which was met m almost equal shares by grants from Government, Local and municipal funds, and donations and subscriptions

Vaccination is compulsory only in the two municipalities 1 In 1903-4 the number of persons successfully vaccinated [†] was 4s per thousand, compared with an average for the Presidency of 30

[Further particulars of the Nilgars will be found in the Manual of the District (1880), by H B Grigg]

Octacemental Subdivision —Subdivision of the Nilgini District, Madris, consisting of the states of Octacement and Gidalitis.

Octacement Talink,-The largest of the three stakes in

the Nilgin District, Madras, lying between 11° 12' and 11° 29' N and 76° 25' and 76° 52 K, and corresponding almost exactly with the old drymons of Todanad and Kundahnad also includes the village of Manngudi, below the Signir ghat, the only village in the District where ordinary systems tenures obtain. The area is 440 square miles, and the population in 1901 was 37,998, compared with 31,60s in 1891. It contains one town, OGTACAMUVED (population, 18,956), the head-quarters, and 17 revenue villages. The demand for hand revenue amounted in 1903-4 to Rs 38,000. The whole tildule is exposed to the south west monsoon, the annual ramfall at the western most village of Naduvattam averaging to a inches. Owing to its high elevation the regetation is almost that of the temperate zone Tea and cinchons are largely grown, the latter chiefly at Naduvattam and on the slopes of Dodahetta in the Govern ment plantations. Experiments with julip are also being made at the latter Through Octacamund tillul runs the Pykara river, the only stream of any size in the District, which leaves the plateau at the north west corner of the talks in two picturesque falls. More than balf the area (300 square miles) congate of 'reserved' forest

Gudalur Taltak -- Western talsak of the Nilgin District, Madras, lying between 11° 23 and 11° 40 N. and 76° 14' and 76° 36' B, at a much lower elevation than the rest of the District. It comprises the South-east Wynsad, which was transferred from Malabar in 1877, and the coffee-growing area called the Ouchterlowy Valley It now contains twelve resenue villages, including GUDALUR, the head-quarters, but most of the land a held on temmes similar to those in Malabar under the Trumsipad of Nilameter in that District. The inhabitants chiefly talk Malayalam or an admirature of that language and Tarril The fisher has lost its importance since the decline of the coffee and gold and mics mining industries, and is now rapidly reverting to jungle, except in a few areas like Nellakotta and Ouchterlony Valley, where coffee and tea still hold their own against the maidious lowious Pandalur and Cherumbilds, which, with DEVALA, were once important mining settlements, have now dwindled to a few native huts. The taken is most sparsely populated, containing on \$80 square miles a population. (1901) of #1,139, or only 75 persons per square mile. In 1891 the population was \$5,597, the decime being due to the restric tion of the industrial enterprises above mentioned. The demand for land revenue amounted in 1003-4 to Ra. 52,000

Cooncer Taluk,-Restern saluk of the Nigm Dustrict,

Madras, lying between 11° 14 and 11° 33' N and 76° 30' and 77° E., and embracing the old divisions of Paranomild and Mekanad It forms the Coonoor revenue subdivision area is \$38 aquare miles, and the population in 1901 was 52,300, compared with 42,798 in 1891. The land revenue demand amounted in 1903-4 to Rs 59,000. It contains the town of Coortoon (population, 8,525), the head quarters, the cantonment at Wellington, and 19 villages. Outside these towns and the small samtermm of Koragna the villages are merely Badaga hamlets. The picturesque Karten falls, signated δ miles south-west of Coopoor, supply the electric power used. at the cordite factory at Aravanghat 3 miles away. Lying to the east of Dodabetta, the tillul receives more run during the north east monsoon than the rest of the Dustrict. The chief coffee planting areas are in the neighbourhood of Cooncor and Kotagari On the extreme cast and at Kotagari are extensive tes estates The talks also embraces the slopes of the hills on the Combatore ade, in one of the villages among which are the Government gardens at BARLIVAR

Aravanghet — A hamlet of Ubbutalas village in the Comoor tible of the Nilgin District, Madras, situated in 11° s2′ N and 76° 45 E, 3 miles from Comoor. It gives its name to a valley on the Nilgin plateau in which a cordite factory has just been completed, designed to supply cordite to the troops throughout India. It has been included within the limits of the neighbouring cantonment at Wallington The machinery is driven by electricity generated at the falls of Kärten 3 miles off. A brevery and distillery stand close by, and the village is rapidly rising in importance. The old road to Ootscamund runs down the centre of the valley by the side of the cordite factory.

Barityar.—Village in the Cooncor taket of the Nilgiri District, Madras, situated in 11° 20 N and 76° 50' E., 61 miles from Cooncon, and half way down the ghat road from Cooncor to Mettipalaryam. Population (1901), 2,234 Mr R. B Thomas, a former Collector of the District, started a private garden here in 1857, which was afterwards taken over by Government. Experiments in tea cultivation and in the growth of medicinal plants, camphor, rubbers, &c, which like a warm, damp chinate at a moderate elevation, have been made here. The garden, which is the only one of its kind in the Presidency, is in charge of the Curator of the Government Gardens at Ootacamund

Cooper Town,-Town and mantarum in the table of

the same name in the Nilgiri District, Madrie, situated in 11° at N and 76° 48' E, 5,000 feet above the sea, at the south east corner of the Nilson plateau, and at the head of the principal pass from the plains. Up this ghat runs a road (at miles m length) and a rack milway (164 miles) from METTUPALARYAM in Combatore District. The town is 345 miles by rail from Madras City, and 11 miles by road from Octacemend Population (1901), 8,525, consisting of 5,297 Hindus (chiefly Pararyana), 898 Musulmana, and 2,327 Chranana, which last includes a fluctuating number of Europeans The place was constituted a municipality in 1866, and the mumcipal area is about 7 square miles. The income and expenditure during the ten years ending 1902-3 averaged Rs 48,600 and Rs 47,000 respectively In 1903-4 they were Rs 62,500 and Rs 60,000, the principal sources of recemts being fees from markets, the taxes on houses and lands, and a contribution from Government. A water supply scheme, estimated to cost Rs 1,17,000 is being carried out by the council Coonoor is the head quarters of the divisional officer, and also contains a stationary sub magnetrate's court, a hospital, four places of worship (one Roman Catholic, one Church of England, and two of other denominations), many schools, a library, and shops and hotels for the convenience of Europeans vanting it. In the neighbourhood are several tea and coffee estates

Coonour is one of the principal satisfant of the Presidency and is perhaps second only to Ootscamind in natural advantages. The town is built in one of the loveliest sites in India. on the sides of the basin formed by the expansion of the Jakatala Valley, at the mouth of a great gorge, and surrounded by wooded hills. It possesses a cool and equable climate, the mean annual temperature in the shade being 62° F the warmer months the thermometer ranges between 550 and 75°, in the colder weather between 18° and 68°. The average amoual ramfall is 63 inches, distributed in normal years over nuncty-one days. The rate of mortality is remarkably low, and no particular ailments can be and to be characteristic of the place. The town is well kept, but owing to the increase in the population the dramage is now in need of improvement. The European settlement is on the upper part of the plateau, and the native beauty in the valley below it. The place has shoot so miles of excellent roads, and several beautiful drives, along the sides of which grow hedges of roses, fuchesa, and heliotrope, and some of which command magnificent views

of the precipitous sides of the deep valley up which the *glist* road climbs, the forests of its farther slopes, and a wide expanse of the plants shimmering in the heat 6,000 feet below

Devella —Village in the Gudalur to have of the Nilgin Destrict, Madras, attuated in 11° 29 N and 76° 23 E, 4 miles from the head of the Karkur ghat leading down to Malabar, on the high road between Gudalur and Vayitin. It was once an important centre for the south east Wynaed gold fields, and bousted a hotel and a telegraph office, while the hills around were studded with bungalows inhabited by the European employes of the gold companies. It was then made the head quarters of the Head Assistant Collector of the District. With the decline of the gold industry it has dwindled to a hamlet with a population (1901) of 495, and its principal buildings at present are a native rest house, a police station, and a travellers bungalow.

Dodabetta ('Big mountain') — The highest peak of the Nilgin Hills and the second highest point south of the Himsi layes, standing in rr° 24 N and 76° 44 E, in the Ootscamund taket of the Nilgin District, Madras, 8,760 feet above the sea and overlooking the station of Ootscamund. In the valleys on its slopes are parts of the Government cinchons plantations, and on its summit stood for many years a meteorological observatory. This was abolished, but has lately been replaced by a better equipped station.

Gudatur - Head-quarters of the table of the same name in the Nilson District, Madras situated in 110 30 N and 76° to E, at the foot of the Gudalur glast on the road from Ootacamund to Cahent and at the nunction of the main roads from Mysore and Malabar Population (1901), 2,558 Gudalur is the head quarters of the deputy takuldar, who is also a Dustrict Muneri, and of a cherustator magnificate, who a also sub regustrar. When the coffee and gold mining mdustnes were flourishing the place was of considerable importance, but with their decline it has rapidly decayed The weekly market is, however, well attended, most of the articles sold being imported from Mysore, and a good deal of traffic between Mysore and Ootscars and passes through The place contains Protestant and Roman Catholic churches, a hospital with a European ward, post and police offices, and two travellers' bungalows

Kotagari —Hall station and plenting centre in the Cooncor Miles of the Nilgan District, Madrie, situated in 11° 56′ N and 76° 59′ E, at the north-cast of the Nilgan plateau, 18 miles from Cooncor. Population (1901),

5, roo The takuldar of Coonoor holds fortughtly criminal antings here. The station was founded in 1830, and has grown but slowly. Its chimate is preferred by many to that of Coonocimum, as it is warmer and less exposed to the south west monsoon. It is connected with Mettupillaryam on the plains in Combatore by a good road, so miles in length, with a uniform gradient of x in 18. The abandoned military sanitarium of Dimhatti her just outside its limits. The Basel Musion has a station here.

Kundahs —Range of hills in the Nilgin District, Madras, hing between 11° 12 and 11° 23 N and 76° 26' and 76° 43 E, and forming the south western wall of the Nilgiri plateau, which rises abruptly from Malaber. The summit of the ridge is rocky and precipitous, and the sides, covered m places with grass and in the hollows clothed with thick forest, alone on the north down to the bed of the Kundah river, which acparates this range from the rest of the table land, and on the south drop suddenly for a great depth into the steep-sided valley of the BHAVARI. The three highest points in the range are Avalanche Peak (8,502 feet), Bear Hill (8,353 feet), and Makurti (8,403 feet) The best big game shooting on the platean as to be had here. Seen from Ootscamund the Kundahs are remarkably beautiful, and the view from their tops across the Bhayam and westwards to the beavy forest of the Atta. padi Valley is one of the finest in Southern India

Majourts — Peak in the Kundars in the Octacamund states of the Nilgin District Madras, situated in 11° as N and 76° 31 E, at an elevation of 8,403 feet above sea level. This is a favourite point for encursions from Octacamund, the ascent being made by a signing path cut on the eastern face. Its western side is an almost unbroken precipace, several hundred feet in depth. The spirits of men and buffaloes are supposed by the Todas to take a leap together into Hades from this peak

Naduvatians — Village in the Octacamund talah of the Nilgin Dutrict, Madria, antiated in 11° 29 N and 76° 33 E, on the edge of the north western comer of the Nilgin plateau, and commanding magnificent views across the Gadalur talah below it and the Malabar Wynaad beyond Population (1901), 2,500. Naduvatian stands on the main road leading from Octacamund to Gadalur, and thence to the coast of Malabar It is the centre of important cinchona and ten estates, and contains the Government cinchona plantations and factory, at which is manufactured the quinne sold to the public at all post offices in 7 grain packets costing three pien each,

It has a healthy chimate, and consequently forms the temporary head-quarters of the Güdalür täkki office during the time when fever is worst in Gudalur. The village has a well furnished travellers' bungalow, a rest house for natives, and a police station

Octacement Town —Head quarters of the takeh of the same name and of the Nilgiri District, Madras, situated in 11°25 N and 76°42 E, on the Nilgiri plateau, about 7,500 feet above the sea, distance from Madras city, 356 miles (the last 11 by road), from Bombay, 1,053 miles, and from Calcutta, 1,374 miles Population (1901), 18,596, of whom 10,770 were Hindus, 2,378 Muhammadana, and 5,345 Christians. The nearest railway station is at present at Coonoon, which is reached by a rick railway up the alopes of the plateau from METTUPALAIN UK, but the extension of the line to Octacemend has now been taken in hand

Bendes containing the Collector's and the taluk offices, Coincamund is the head quarters of the Madras Government during the hot season, and of the general officer commanding the Ninth (Secundarabild) Division and his staff It is thus the chief sanitarium in Southern India The possi b littes of the climate of the plateau on which Ootscamund stands were first brought to notice in 1818 by two civilians who had reached it from the Combatore aide, but it is doubtful. whether they over vinted the present rate of Ootacamund itself The next year Mr John Sullivan, the Collector of Combatore, within which District the Nilgins were then included, visited the plateau, and two years later he built the first house at Octacemend This was Stonehouse, which has given its name to the hill on which the Government offices are now astuated The name of the station is a corruption of Utaka mand, a mand, or collection of the quaint huts in which the aboriginal tribe of the Todas live, not far from Stonehouse. Mr Sullivan did much to enlist the sympathies of the authorities in the development of the place, and in 1827 it was formally estab hahed as the samtamum of the Presidency Mr Stephen Rumbold Lushington, Governor of Madras between 1827 and 1830, greatly interested himself in opening up the station, and since then it has steadily increased and improved figures of population given above do not afford an adequate idea of its size, as the Census was taken in the cold months before the annual influx of hot season visitors with their servents and following had arrived, but they demonstrate how considerable is the number of permanent residents.

The station reposes in an amphithestre surrounded by four great hills, Dodahetta (8,760 feet), the highest point of the Nilgin plateau, Snowdon (8,380 feet), Elk Hill (8,090 feet), and the Club Hill. At the bottom of the valley enclosed by these, on the slopes of which are built the various rendences and offices, was formerly a wide bog through which wandered a stream that eventually left the valley on the west. The lower part of this stream has been turned into a lake, round which winds a carriage drive, and the upper part of the bog has been filled in and levelled and converted into the Hobart Park, one of the most beautiful polo and cricket grounds in India, round which runs a racecourse with a lap of a mile and a quarter. By the side of the Park stands the chief basar in the station, and farther west, in the Kandal Valley, is another large collection of native houses.

West of this again are the Wenlock Downs, a wide expurse about 16 square miles in area, of indulating springy turf diversified with woods and streams, on which are the golf links, and which forms the home country of the Ootscamund Hunt, an institution founded in 1867 to hunt the hardy and fast hill jackal with foxhounds imported from England. Across the downs and round the outer edges of the plateau run several carriage drives, which wind through beautiful scenery and in places command magnificent views of the low country. These downs and drives, and the possibilities they afford for outdoor exercise, constitute the chief superiority of Ootscamind over the more steep and cramped hill stations on the Himaleyan

The station itself has also a great charm. The somewhat mountful looking Australian trees—the eucalyptin, the waitle, and the Annua malanesty lon—which have been planted through out it are perhaps now too numerous to be beautiful, but, on the other hand, plants and shrubs which in England require care and shelter here flourish in an almost aild state with wonderful luminance. Hedges round gardens frequently consist of roses, gerannims, fuchaia, and even heliotrope. The annual rainfull is about 49 inches, and the frosts in the colder months are only slight, so that flowers bloom in profunction in every month of the year.

Octacement was made a municipality in 1866. The receipts and expenditure during the ten years ending 1902—3 (excluding debt beads and other fictitious items) averaged Rs. 1,40,000 and Rs. 1,59,000 respectively. Losses have been necessary to supplement the deficit. In 1903—4 the corresponding figures were Rs. 1,92,000 and Rs. 2,53,000, the chief items among the

receipts being a grant from Government, the taxes on houses and lands, and the water rate. The council maintains excellent driving roads throughout the station, has constructed an intercepting sewer to keep the drainage of the main basis from polluting the lake, supplies the place with water led through pipes from the Marimund and Tiger Hill reservous on the tops of the enclosing hills, controls a weekly market which is in many ways a model institution and is well supplied with commodities from the plains, and is contemplating an elaborate scheme of drainage estimated to cost 3 lakes. Plague visited the station in 1903, and Government has lent the council money to enable it to open out the more crowded parts of the bazars, and purchase house sites for natives outside the centre of the station.

Octacement contains a branch of the Bank of Madras, a library established in 1859 and possessing about 15,000 volumes, several churches belonging to different denominations (of which the oldest is St Stephen's, the chief Church of England place of worship), a residential Club, and a Gyn.khana Club. The Government Botanical Gardens, situated in a sheltered valley surrounding Government House, contain many rare trees and plants and are in charge of a Curstor They cover 51 acres, and were established in 1842 during the governorship of the Marquis of Tweeddale. The educational and medical institutions of the town are referred to in the article on the NII GIRI DISTRICT

Ouchteriony Valley —A beautiful valley in the Güdalur tillule of the Nilgin District, Madras, lying between 11° 23' and 11° 30' N and 76° 26 and 76° 33 E, 39 square miles in extent, and at an average elevation of 3,000 feet above sea level, below the south western wall of the Nilgin plateau. It takes its name from Colonel J. Ouchterlony, R.E., who made the first survey of the Nilgins in the fourth decade of the last century and wrote a valuable memoir upon the District. The valley is now an important centre of coffee, tea, and cinchona cultivation, though the whole neighbourhood has suffered severely from the depression in the planting industry and few of the many Europeans who once resided in it are left. The area under coffee is nearly 4,000 acres, the Guynd estate alone containing an unbroken block of 800 acres in full bearing. The population in 1901 was 5,265

Wellington. — Hill station and military cantonment in the Coonoor tähek of the Nilgiri District, Madras, situated in 11° 22' N. and 76° 47' E, about 14 miles from Coonoor and

o miles from Ootscamund, at a height of 6, 100 feet above the sea. Population (1901), 4,793. It used to be called Jakatala, from a village and apur of Dodahetta of the same name in its immediate neighbourhood, but the term has now fallen into complete distance. Wellington is the head quarters of the Colonel on the Staff commanding the Southern Brigade of the Ninth (Secunderabad) Division, and also contains the convalescent depot. It is thus the principal military sanitarium in the South of Indu. It has a handsome range of barracks, built in 1857, and is garrisoned by a British misnitry battahon. which supplies detachments at Cannanore, Calicut, and Malappuram. Although it is only eleven degrees from the equator, its climate is most healthy, being temperate and yet invigorating. The thermometer seldom rises above 75° F in the shade, and the mean temperature of the year is 62 3° Throughout the cold months the days are clear and bracing , and if the character and time of the setting in of the south west monsoon be regular, the middle of the year is also pleasant. The annual manfall during the five years ending 1902 averaged 47 mches The station is planted throughout with numerous ornamental trees, which afford sholter and add to its beauty. The intersecting valleys, the sides of the hills, and the upper platean possess a rich soil, the result of subtropical forest growth, producing luxurant vegetation, including almost all the usual European vegetables and many kinds of fruit

MALABAR DISTRICT

Malabar (Malayalam, or Malayam, 'the land of hills.')—1 Perhaps the most beautiful, and certainly one of the richest and most fertile, of the Districts of Madras, lying on the west coast of the Presidency between 10° 15 and 12° 18 N and 75° 11' and 76° 51' E. Its ancient name was Kerala, which included also the District of South Kanara and the Native States of Cochin and Travancore, the form Malabar appears to be derived from Arabian sources, the termination has meaning "country"

Fixeluding the Laccapity Islands the District has an area? of 5,795 square miles, and stretches for a distance of 150 miles! along the Arabian Sea from South Kanara in the north to Cochin State on the south. On the east it is separated from Coorg. the Nilgura, and Combatore by the Western Ghata, which form a continuous mountain barrier from 3,000 to 8,000 feet high, at a distance from the coast which varies from so miles in the north to 60 in the south, and are interrupted only at the Palghat Gap 16 miles wide, the one break in the whole of the range. In two places the lamits of the District catend beyond the mountain wall namely, in the Wynaud taluk, a plateau 3,000 feet above sea level, which really forms part of the great Mysore table hand, and in the ATTAPADI and Silent Valleys, which lie behind the irregular ridge stretching from the KUMDAHS to the northern piller of the Palghat Gap. The most conspicuous peak in the Malahar hills is the Camel's Hump or Vapul male, 7,600 feet high, which heads a magnifi cent buttress thrown out to the south west below the Tamaras. seri Pass, where the general line of the Ghats recedes eastward I his spur constitutes the right flank of the NILAMBUR Valley, while the left is formed by the Kundahs, which rise to over 8,000 feet in the Nilgin Hills and Makurti peaks on the Nilgin boundary

The Ghits are thickly wooded in most parts, and contain mountain scenery of unrivalled beauty, many of the peaks being precipitous and inaccessible. The country below presents the general appearance of a sea of forest-covered hills. Long wooded spurs with deep ravines run down from the main range, and are succeeded by gentler alopes, covered with low jungle,

and by bare downs with gradually widening valleys of luminant cultivation. Nearer the coast the laterite downs shelve suddenly into rice plains and lagoons fringed with coco-nut palms. Along the coast is a level strip seldom more than a or 3 miles wide. It was thus described by Ibn Batuta as early as the fourteenth century. 'The whole of the way by land [down the coast] lies under the shade of trees, and in all the space of two months' journey there is not one span free from cultivation, everybody has his garden, and his house is planted in the middle of it.'

With the exception of three tributanes of the Cauvery—the Bhavāni, which rises in the Attaphth Valley and flows through Combatore, the Kabbam and the Rämpur, which rise in the Wynaid and traverse Mysore—all the numerous rivers of Makbar flow westward from the Ghats to the sea, where they are backed up by littoral currents and discharge into a line of backwaters and lagoons parallel to the coast. Most of the rivers are navigable by small boats for some miles beyond tidal influence, and many of the lagoons are connected by small canals; there is thus an extensive system of inland waterways of great commercial importance. The longest of the rivers in the Ponnäm, but the most important are the Bryrors and the Valarpattanam; all three are connected with extensive systems of backwaters.

The seaboard is entirely open except in the extreme north at Mount Delly, a massive latente island hill, celebrated as the first point of India aighted by the Portuguese ships. South of this as far as Calicut small beadlands of latente cliff, forming shallow bays, alternate with long stretches of sand. beyond Calicut is one unbroken stretch of sand. The sea bottom shelves very gradually, and there is no deep water within three miles of the shore. Thereafter it plunges suddenly down to 1,000 fathous and more. Small craft find shelter in the mouths of the bigger rivers; while at Calicut, Quilland, and Cochin shifting mudbanks afford a calm roadstead in all weathers.

The greater part of the low country is covered with laterite, but the underlying rock consists of fine grained gnesses, quartzone, gametrierous, and quartzo-felspathic. The laterite is of two kinds namely, vesicular, derived from the decomposition of the gnesse is site; and pellety, a detrital rock formed of the debris of the vesicular variety. The Wynaad plateau is composed chiefly of rocks of the charmockite series with biotite gnesse and biotite granite, in the former of which

auriferous reefs occur. Veins of pegmatite, carrying ruby mica of fair size and quality, are found in the south of it

Owing to the perennial humidity of the climate, the flora of the District is very luxurant. It is similar in its general character to that of Ceylon, but varies with the many changes in altitude and moisture which occur. Palms, bamboos, the pack tree, and the pepper vine are among the more characteristic plants of the lower levels. Higher up are heavy evergreen forests full of large timber, and tree-ferns, orchids, and mosses are plentful. The Hortes Malabaricus of Van Rheede, a Dutch governor of this part of the country, is the earliest treatise on the flora of Southern India and describes as many as 704 different plants.

The fauna of Malabar is extremely varied. Throughout the Ghats and the Wynaad are found the usual large game common to the South Indian hills, such as tiger, hear, leopard, bison, sameer, and hog. Elephants abound, especially in the Wynaad and Nilambur forests, where large numbers are caught in pits by the Forest department. Spotted deer are confined to the hills at the foot of the Ghats, and the Nilgin ibex (Hemitragus hylecrus) to the Palghat Hills and the Kundaha, Crocodiles and ofters abound in the backwaters, and a very large variety of edible fish are caught all along the coast

The climate, though excessively damp, is on the whole a healthy, but the Wynard and lower slopes of the Ghais, with the country immediately at the foot of the hills, are malarious, especially from February to June. The temperature of the low country varies hitle the whole year round, seldom rising as high as 90° or falling below 70° there is a constant sea breeze during the day in the hottest weather. The mean temperature for the year at Calcut is below 81°.

The rainfall is heavy and unfailing throughout the District, and the seasons are regular. Thunderstorms begin among the hills in April. In May the south west monsoon sets in, and banks up the clouds against the Ghāts. The rains break early in June and continue to the end of September, when the south west monsoon thes away. Three fourths of the total fall is received during these four months. In October the north east monsoon sets in, the rains alacken, and by December the dry season is established. The rainfall is lightest in Palghat, where the gap in the Western Ghāts pievents the accumulation of so much mousture as classifier, and beaviest among the high hills in the south of the Wynaed. The annual fall for the whole District averages 116 inches.

Famme, therefore, as practically unknown, while, since the rapid rivers have cut deep beds for themselves, floods are rare. Nor is there any record of senious natural calamities of other kinds, such as cyclones or earthquakes, except the storm wave of 1847, which did much damage on the Laccadive Islands and a little on the mainland.

The early history of Malabar is inseparable from that of the adjoining State of Travancore. Identical in people, language, laws, customs, and climate the whole of ancient Kerala is homogeneous in every respect, except in the accident of a divided political administration. To trace the increasive waves, whether of invasion or of peaceful colonization, which are now represented by the Cherumans and Thans, Nayars and Nambudris, overlying one another in social strate, or to examine the physical justification for the legendary origin of this interesting country, is beyond the scope of this article

It is probable that the later flood of immigration which gave to Kerala or Chura its Nayars and Nambudrus was part of a general movement southward, which in prehistoric times brought the best of its people and its Brahmanum to Southern It is also likely that the physical formation of Kerala was due to some natural process, gradual or convolute, which gave ruse to the local legend of its having been the gift of the ocean In very ancient times a traffic sprang up between the Mediterranean cines and the roadsteads of Malabar Phoenicians came by way of the Persian Gulf and afterwards by the Red Sea. Possibly the Jews made the same voyage in the reigns of David and Solomon. The Syrians under the Seleucids, the Egyptians under the Ptolemies, the Romans under the emperors, the Arabs after the conquest of Egypt and Persia, the Italians, more especially the Republics of Venice. Florence, and Genoa, have each in turn maintained a direct trade with the western ports of the Madras Presidency. In the early political history of Malabar the first figure that emerges from the must of tradition is Cheraman Perumal, the last of the sovereigns of Chera. He is represented as voluntarily resigning his throne, subdividing his langdom, and returng to Metca to adopt Islam. The date of Cheraman has been the subject of much discussion, but recently information has been received that his tomb still exists at Sabhai on the Arabian coast, and the dates on it were said to indicate that he reached that place m A H 212 (AD 827) and died there in A H 216 (AD 831) His departure from Malabar may possibly have taken place on August 25, 825, which is the first day of the Kollam era still in time on the coast. The epoch popularly assigned to him is the middle of the fourth century. It is probable that, if the resignation and partition actually occurred, they were forced on the ruler by the growing power and turbulence of his fendatory chiefs and by the encroachments of the Western Chalukya dynasty. From this time Malabar remained divided among numerous small chieftains, of whom Kolattin or Chirakkal in the north and the Zamorin (or Samuri) in the south were the most conspicuous. It was with these last two, and with the Cochin Raja, that the early Portuguese adventurers first entered into relations.

Vasco da Gama visited Malabar in 1408, and his successors speedily established themselves at Cochin, Californ, and CAMMANORE In 1656 the Dutch appeared in the Indian seas to compete with the Portuguese for the trade of the country. They first conquered Cannanore, and in 1663 captured the town and fort of Cochin, as well as TANGASSERI, from their In 1717 they seemed the cession of the island of CHETWAI from the Zemorm But in the next half century their power began to wane. Campanore was sold to the Campanore. family, represented at that time by Ali Raja, in 1771, Chetwai was conquered by Haidar in 1776, and Cochin captured by the English in 1795 The French first settled at Cahont in 1698 In 1726 they obtained a footing in Mark, and in 1751 acquired Mount Delly and a few outposts in the north, all of which fell into the hands of the English in 1761. Their frequent wars with the English ended in the destruction of their commerce m the East, Mahé having been thrice taken and thrice restored. The English had established themselves in 1664 at Calcut, in 1683 at Trillicenters, and in 1684 at Anjengo, Chetwei, and other commercial factories. Tellicherry became their chief entrepôt for the pepper trade and so rapid was the extension of their power and influence that in 1737 the English factors mediated a peace between the princes of Kanara and Kolattiri They obtained the exclusive privilege of purchasing the valuable products of the country namely, pepper, cardamona, and sandal wood

For nearly a century the Marithz prates under Angua and other chiefs infested the coast, and ravaged even mland towns by sailing up the Beypore, Ponnini and other rivers, till 1756, when they were destroyed by a British expedition. The Ikken or Bednür Räjä in 1736 and 1751 invaded the country of Kolattin and imposed fines on the northern division. The Palghat State, after dismemberment by the Räjäs of Cahcat

and Cochm, sought the alliance of Mysore, then ruled by its Hindu Rājā, who stationed a subsidiary force in Pālghāt. It was this connexion which afforded Haidar Ali, when he became ruler of Mysore, a pretext for mysding Malabar in defence of his ally, the Palghāt Achichan. In 1760 Haidar sent an army to Palghāt and descended the ghāts through Coorg in person. Again in 1776, at the instigation of Ali Rājā, the Mappila chieftam of Cannanore, he made an easy conquest of the whole country, the Rājas fiving into the jungles or taking refuge in the English settlement of Tellicherry. They, however, took advantage of the war between Haidar and the English in 1768 to reinstate themselves until 1774, when Haidar again passed down the ghāts with two armies and completely subjugated the country, the Hindu chiefa returng to Travancore and Tellicherry

On war breaking out between the English and the French m. 1778, Hardar resented the asylum that had been granted by the former to refugees in 1760, and began hostilities by investing Tellicherry fort. The siege was projectited in a fitful manner for two years till reinforcements arrived from Bombay, when it was raised by a sortie, the success of which was so complete as practically to annihilate the beneging army. Peace intervened between 1784 and 1788, when Trpu Sultan, son and successor of Haidar, descended the ghats and commenced a religious persecution of the people. This produced a rebellion, and, on the breaking out of the war between him and the British in 1700, the refugee chiefs were encouraged by proclamation to join the British cause. The contest terminated in the cession of Malabar (except Wynaad) to the Company by the treaty of Seringapatum in 1708 Since that date the District has remained m the peaceable possession of the British, except for the rebellion of the Kottayath (Pychy) Rays in the north and various Mappella chiefs in the south (1795-1805) Wynaed fell to the British on the death of Tipu Sultan in 1799.

Preinstoric menhirs and dolmens, in which have been found bones, pottery, iron implements, and beads, are scattered all over the District. Pecuhar to Malabar are the tops halls ('hatstones'), hade halls ('umbrella stones'), and bee have sepal-chres cut in the latente rock. A large number of Roman coins of the early emperors have been found in Kottayam, and a few elsewhere. The architecture of the temples, both Hindu and Muhammadan, perhaps suggests Mongohan influence, the most striking feature is the reverse alope of the saves above the verands, a peculiarity which is found all down the west coast

but nowhere else in India south of Nepāl. Most of the temples are small; the finest are at Guruvāyūr, Calicur, and Taliparamea.

During the last thirty years the population of the District has I advanced steadily if not rapidly. In 1871 it was 2,261,250; P in 1881, 2,365 035; in 1891, 2,652,565, and in 1901, 2,800,555. Malabar is now the third most populous District in the Presidency, and, notwithstanding the large areas of hill and forest included within its limits, is more densely peopled than any other except the rich delta of Tanjore. The rate of increase is little affected by outside influences, famine being practically unknown, emigration small, and immigration a negligible quantity. The District is divided into the ten takkis of which particulars, according to the Census of 1901, are appended, and also includes the Laccadree Islands:—

	2	Humber of		1061	k	N	. 9
Taluj	Acta a squa	Town	Village (decemb)	Population at 3	Population p	Part contage of years properly contage of years properly contage of years of years of years and years of years	Number of parties of the state
Kottsyana	48 1		223	\$09,516	496	+73	28,249
Chuaklal .	677	I	278	\$20,107	473	+00	\$3 810
Kurambranid	FOE	1	339	337,310	648	+76	29 279
Wyneed .	148	۱	18	75 149	9:1	1·I	4,649
Calicat	179	I	180	agy, Sta	674	+7-6	33,447
Resid	979	l	221	367,74*	365	+39	92,745
Walavaniid	881	۱.	316		898		30 611
Pflightt.	643	ı	156	390,098	607		87,395
Ponatan .	436	1	459	475,876	1,112		45,517
Cochus .	1	τ	3	45,859	[3,090	+90	6,011
Laccadne Is-			,				
landa , .	- •		8	10,974		-25	461
District total	8-79S	7	2,213	1,800,856	481	+ 5-6	280,9 6 4

Rach thick is divided into autreus (parishes) instead of villages, and these are again subdivided into access. The custom by which each family lives in its own separate homestead is sumical to the growth of towns, and there are only seven in all Malabar: namely, Californ, Thillicherry, Palghar, Cambanour, Cochin, Badagara, and Pommani. Of every 100 of the people 68 are Hindus, 30 (a far larger proportion than in any other District) Musalmans, and 2 Christians Malayalam, a language which is confined to the Malabar coast, is the prevailing vernacular, though 4 per cent. of the total population apeak

Tamil. Mahl is the language of the islanders of Missicov, one of the Laccidives.

The Hindus of the District include 113,000 Tamils (30 per cent of whom are Brahmans), about 20,000 Telugus, and a sprinking of other races, but the enormous majority consists of Malayalam speaking castes peculiar to the country. The most numerous of these are the Tiyans (or Iluvans), the toddy drawer caste, who number 661,000. Next come the Nayare (391,000), originally the military caste of the District and still They are followed by the Cherumans the aristocracy (246,000) the agricultural labourers of the country, who are often adversate globas in the strictest sense, and form one of the most unprogressive communities in the Presidency Kammalana (artisana) are the only other caste over 100,000 strong The Nambudu Brahmans, though numbering under 20 000 deserve mention from their influential position. are almost invariably landholders, often of large estates. Unlike most Brihmans, they keep aloof from public affairs, and despise modern education, but they are the object of the deepest reverence from all other castes

Space does not permit of a detailed account of the many ways in which Malayalam caste customs differ from those of the rest of the Presidency, but two peculiarities may be noticed The first is the vitality of the doctrine of ceremonal poliation, which is elaborated in great detail and is still acrupulously observed except in the towns. There are regularly guiduated degrees of distance within which one caste is held to pollute another, and a high caste man returning from his bath shouts out to ware others of his approach, so that they may step ande into the fields and not pollute him. The second is the prevalence of the Marumakkattäyam law, or system of inheritance through females, which makes a man's sister's children his pearest here This is invariable among the Navara and kindred castes, and is followed by most of the Tryans and Mappellas of North Malabar and by some of those of South Malabar The custom presumably originated in the uncertamp, regarding parentage which arose from the polyandry which was formerly widely practised and may still exist in 130bated cases. Among the Hindu Marumakkattilyam castes marriage consusts in a union (numberations) formed by a guil who has reached maturity with a man of her own or a higher caste, the main ceremonal being the presentation of a piece of cloth by the bridegroom. This umon is dissolvable at will, and the children born of a belong to the mother's family (turnels)

and do not inherit their father's property. In 1891, in compliance with a movement among a section of the Nayars, the Government appointed a Commission to consider how a more permanent form of marriage might be provided for Marri makkattayam castes, and a law was enacted by which, if same bandhams were formally registered, the property of the parents could be beguesthed to the children of the union

The Musalmans of Malabar number 843,000, or more than Wone third of all the followers of that faith in the Presidency of these, 806 000 are classed as Mappallas, a name originally applied to Arab traders and their descendants by the women of the coast, but now used to include all indigenous west-coast Muhammadans, among whom are comprised large numbers of converts from the lower Hindin castes, and descendants of the victims of Tipu's persecution. Of the remainder, \$4,000 are Labbais, also a mixed race.

Euranana are more numerous in Malabar than in any other District except Madras and the Nilgins

The people of Malabar are less exclusively agricultural than 0 those of other Districts. This is due to the fact that a large to number live by fishing and fish curing, wood cutting, oil pressing, rice pounding, and making the palm leaf hats and umbrellas which are universally used. The number of those who subsist by service in temples, astrology, and teaching is also above the average.

Of the 51,000 Christians in the District, 46,000 are natives C and 4,000 Euranana. The Native Christian Church of the " west coast, founded traditionally either by St. Thomas or by mismonaries from Babylonia in the fourth century, appears to have been more or less independent till the aixteenth century, though acknowledging generally the supremacy of the Nestonan Patriarch of Babylon After a long struggle against the milience of Francis Kayler and various Jesuit and other Portuguese missionenes, culminating in the famous synod of Diamper (UD AYAMPLEUR) in 1500, the Church passed under the domination of the Pope, but with the rise of the Dutch power the greater portion of the original Native Church threw off its allegience to Rome in 1653 and attached itself to the Jacobite Patriarch of Antioch 1 he Campelite massonanes, who first came to the country in 1656, gradually won back a large number of the native Christians to Rome, and the remaining section, falling under the influence of the Church Musiconary Society in the beginning of the nineteenth century, have finally split up into two bother. The indigenous Church, therefore, a now represented by three bodies namely, the Romo Syrans, who acknowledge the Pope and are Roman Catholics, though they have their own Syran nite, the Jacobste Syrans, who follow the Patriarch of Antioch, and the reformed Syrans or St Thomas Christians, who appoint their own bishops, and whose doctrines approximate to those of the Anghean Church

The present Roman Catholic missionaries are Carmelite Fathers and Jesmis. The only Protestant mission is the Basel German Lutheran Mission, established in 1839. It has churches and schools in all the talker except Ernid and Cochin, and a congregation numbering about 6,000, or 12 per cent. of the Christian population.

The agricultural conditions of Malabar differ from those of the east coast as widely as do its physical features. The prevailing soil is a red ferroginous loam, but on the slopes of the Ghitts there is a rich layer of black mould formed of decayed vegetable matter. On the hills and plateaux of the low country. the soil varies from rich loam to uncultivable laterite, the former being most prevalent in the Ernad, Walavanad, and Palghat talish, where there is extensive 'dry (unimizated) cultivation The best rice crops of the District are grown in the deeper mland valleys, where a tensorous soil is enriched by the surface earth washed down from the hills. The shallower valleys contain a light loam, which becomes sandy as they broaden out near the coast, or clayey where they meet the bugger rivers and backwaters. Above the line of 'wet' cultivation there is as a rule a frange of gardens, each with its homestead, often reaching to the very top of the hill side, but in the southern takels the alopes are more frequently terraced and cultivated with 'wet' crops to a considerable height above the level of the valley. The soil of the level country near the coast is poor and very sandy, and subject to damage from salt water floods It is, however, peculiarly adapted to the growth of the cocoput palm, with which the coast lands are thickly planted

Two 'wet' crops are grown in most of the valleys with the help of the two monsoons. The first (know!) is sown in April and May and reaped in August and September, while the second (makersw) is sown in September and October and reaped in January and February. On some of the best lands a third crop (pusys) is sown in February and reaped in May On single-crop lands one or other of the above is grown, but the cultivation season varies almost infinitely with the nature of the land and its irrigation facilities, and in some cases extends over ten months. In the better soils nice is usually planted out

from nursery beds, elsewhere it is sown broadcast "Dry" crops are raised usually with the help of the south west mon soon from May to August Modas—rice grown on the open lower hills and in parameter (orchards)—is raised on the better soils once in two or three years, on the worse soils once in five years. On the best it is usually followed immediately by a crop of gangelly (Sesames indices) and another of chance (Panicus subserv), the three crops occupying the land for more than eighteen months. Panass—a mixed crop of rice, millet, fire—is raised once in seven or eight years on hill sides roughly cleared by burning

The 5,795 square miles of which the District consists include (18 square miles of 'mmor mass', the rest, except the Lacca dives and a small area held on special terms by Ah Raja of Camanore, is ryotuāri. There are no accurate statistics of the area under cultivation, &c., but the extent cropped in 1903-4 (including temporary cultivation, 1 e the actual area cultivated for the year with 'dry' crops) was about 2,200 square miles, or 38 per cent of the total area. Of the remainder, the major portion consists of high hills, forests, and other uncultivable areas.

Rice is the staple food gram, covering to per cent of the net area cultivated. In gardens and parambas, which occupy nearly half the cultivated area, by far the most important crop is the coco-nut palm. Next come areca palms, plantams, and pepper, the latter being practically confined to the three northern talaks and the Wynaud. Other garden products are jack, mango, palmyra palms, betel vines, cinnamon, and many kinds of vegetables. Gingelly, chams, rays, and various pulses are raised on the open hills and in parambas, ginger is a valuable dry crop in Ernad, Walavanad, and parts of Ponnani, and cardamoms in Kottayam and the Wynaud, while lemon gram is being widely grown in Ernad. About 4,800 acres in the Wynaud sie under coffee and 4,600 acres under tea

No accurate statistics exist to show the extension in the area of holdings. Near the coast there is little cultivable waste, while inland the limits of cultivation are being steadily pushed back into the jungles. The Malabar ryot is very conservative in his methods of cultivation, and still generally confines himself to the use of straw and leaf manure for 'wet' lands. Fish manure is used in some gardens on the coast and in the Wynsad. The gardens could often be much improved by a more extended use of well irrigation. No advantage has been taken of the Land Improvement Loans Act.

There are no important local breeds of stock. In the four southern stabiles, where cattle are comparatively numerous, the majority are imported from Coumbatore. Male buffaloes are widely used in cultivation. In the northern stabiles animals are imported from Coorg and Mysore, and they are bred to a small extent in the Wynasd. Cattle are fed mainly on nice straw.

The cultivation of the District depends on the practically unfailing rainfall, and there are no impation works of any importance. 'Wet' lands are impated where necessary by diverting into them the imminerable streams which flow down the valleys, and some of the high lying fields by baling with practicals from small resurvoirs and wells. A few temporary dams are constructed on the upper waters of the Poinfail river and its imbutaries in the Palghat and Walayanad tildules, and a little land is impated by baling from the same river throughout its course. Cardens are watered by hand from the wells which most of them courses.

Nearly one-third of the total area of Malabar is occupied by The forest zone, which begins about 5 miles from the foot of the Western Ghair and extends to the eastern boundances of the District, includes both evergreen and deciduous growth, the former being found on the Ghats and the slopes of the hill ranges in the north of the Wynaid, from a height of 500 feet upwards, the region of very heavy runfall (over 200 mehes) The principal timber trees in the evergreen forests are chony, white and red cedar, pun (Calopkelhum snopkyllum), erandegam (Hotea partufera), and (Artocarpus hermia), and pack (Articarius integrifeda), in the deciduous forests, teak, pengas (Physicarpus Marsupium), ventak (Lagurstroimia micro curpa), blackwood (Dalbergia latifolis), karimaradu (Termisalia tementosa), srul (Xyha dolabriformis), as well as jack and seen. Minor forest produce includes cardamoma, dammar, honey, wax, gall nuts, soap nuts, gum king, ginger, cannamon, pepper, &c Most of the forests are provate property, and their produce has long formed an important source of wealth to the country, but continued unscientific forestry is denuding most of the hills of their valuable trees, as it has long ago denuded the burger isolated hills in the plains

The Government forests cover 454 aquare miles, and are divided into two divisions, North and South Malahar, each under a separate Forest officer. The former includes Wynasd (199 square miles of forest) and Kottayam (32 square miles), and the latter Ernäd (161), Walavanād (33), and Palghāt (29). There are also about 80 square miles of 'reserved' lands,

which are mainly leased forests. The most important Reserves are in the north of the Wynasd and at Nilambur (Ernad), where there are valuable teak plantations. The total receipts from Government forests in 1903-4 amounted to Rs 1,19,000, including a considerable sum from the sale of trapped elephants.

The mmerals of the District are now hardly worked at all Y Iron ore is rudely emelted in small quantities in the cast of Emild and Walavanid Gold seems to have been extensively worked by the natives in ancient times, both by surface washing and mining in the valley of the Beypore river, one of the inbutanes of which is called the 'gold river' and up the slopes of the Ghats in East Friend and South Wynaed soil throughout these parts is aunferous, and there are numer our reefs of considerable thickness. About 1874 a determined attempt was made by various English companies to establish the industry by scientific quartz crushing but none of the mines was a success. At present gold working is confined to a little sand washing in the bed of the Beypore river. Mica is mmed to a small extent to South Wynead Laterite is quarred throughout the Dutrict for building purposes, and clay for tiles and pottery is worked in most of the talks

Few arts of importance are practised in the District. The seaving of calico, which derives its name from Calicut, has practically died out, though course cotion cloths for local use are made to a small extent in many villages. The Basel Mission has weaving establishments at Camnanore and Calicut. The chief indigenous industries are the manufacture of yarn from coco-nut husla, the husks being scaled in pits in the backwaters and the fibre beaten out by hand, toddy drawing from coco-nut, sago, and palmyra palms, the inquor being largely drunk by the lower castes and also distilled or manufactured into coarse sugar, fish curing, which is mainly in the hands of the Mappillas and Mukkuvans, and is carried on at thirty one Government yards, and the pressing of coco nut and gingelly oils in small mills worked by bullocks.

There are four mission and three native factories for the manufacture of tiles, bricks, pipes, &c., from the special clays found in the District. Their total annual output is valued at over a lakks, of which more than 90 per cent, comes from the mission cetablishments. The tiles are widely exported. At Calicut, Tellicherry, and Ferokh are steam curing works belonging to various European firms, at which coffee, cinchons, pepper, and ginger are cured and dired. The value of the

produce dealt with at these factories in 1902-3 was estimated at over 44 lakhs, the bulk being coffee from the Wynasd, Coorg, Mysore, and the Nilgiris. A steam sprinning mill at Calicut, belonging to a native company, was established in 1883, with a nominal capital of 6 lakhs, the annual out-turn of cotton yarn is between 500 and 600 tons.

Owing to its extensive seaboard, the maritime commerce of the District is far more important than its inland trade chief ports are Cochm, Cahcut, Tellicherry, Cannanore, Beypore, Badagam, and Ponnani. The total value of the imports and exports in 1903-4 amounted to 223 lakks and 512 lakha respectively. The most important exports are coffee, corr (coco nut) yern and fibre, and pepper, which together make up over half the total, the other chief articles being tea, cinchona, ginger cardamona, copta (dired coco-nut kernels), coco-nut oil, salt fish, wood, and tiles. The chief imports are salt, nee and other grain piece-goods, cotton twist and fabrics, metal ware, machinery, glass, hardware, dyes, drugs gunny, and kerosene oil. The bulk of the ganger trade is with the United Kingdom, but pepper is sent largely to Italy, France, and Germany, coffee to France and Australia, cost and coco-nut oil to Germany, France, and the United States, and sandal wood to France, Germany, and America Half the coast traffic is with Bombay, but nice is largely imported from Burma and Bengal

The Ghitt barner practically confines the inland trade with the eastern Districts to the route through the Pilghit Gap, and most of it goes by rail. Of the products of the District, coeo nut oil, salt fish, and timber, and of its imports rice, salt, and piece-goods, are the chief articles carried by rail, while juggery, tobacco, oilseeds, sandal wood, and hides are the chief imports. By road, cattle are imported from Combatore, and rice is exported from the Pilghit tilink, while from Mysore and Coorg tes and coffee come down to the coast, and gram and cattle are imported in exchange for piece-goods, salt, and coco-nut oil

The larger ports are the chief centres of general commerce, and Päighät concentrates the gram and cloth trade with the east coast. For internal trade there are numerous weekly markets, the most important of which are at Väniamkulam and Chowgulit. The sea-borne trade is largely in the hands of European firms at Cabout, Cochin, and Tellicherry. Of the native castes Māppillas are the chief traders, but numerous Pārai, Arab, and Gujarāti merchants are settled on the coast,

and in Palghat are found some Labban and Chettis from the Tamil country

The south west line of the Madras Railway (standard gauge) B enters the District in the south east through the Phighlit Gap and runs along the Ponnini river to within a few miles of the sea, and then turns north and follows the coast to Cannanore, a total distance of 157 miles. The line is now being extended into South Kanara. From Olavakod a small branch of 2½ miles runs to Palghlit, and from Shoranur the new metre gauge line, opened by the Cochin State in 1902, goes to Ernükulam.

The total length of metalled roads in the District is 606 F miles, and of unmetalled roads 790 miles. Of the metalled roads 70 miles are under the charge of the Public Works department and the rest are maintained from Local funds There are avenues of trees along 1,534 miles of road, including by roads not maintained from public money. The chief lines are the road from Calicut to the Combatore frontier through Malappuram and Palghat, the four ghat roads from Cannanore, Tellicherry, and Calicut to the Mysore and Nilgan frontiers, through the Perambadi, Perra, Tamarassern, and Karkur passes respectively, and the coast road from the South Kanara border to Beypore The Dutnet as a whole is fairly well supplied with roads except in the eastern portions of the four northern teleks, the inner parts of Emad and Walavanad having been opened out during the last twenty years in connection with the suppression of Mappilla outbreaks. But the hilly nature of the country necessitates a large number of made roads if communication is to be easy

Equally important with the roads is the extensive system of I inland water communication, which includes the Conolly Canal and the Ponnian and Valarpatranam livers, and the comprises in all 587 miles of navigable liver and backwater, connected by 50 miles of canal. The backwaters are not deep, and the canals are adapted only for small boats, being mostly from 10 to 12 feet broad and very shallow. All the traffic, both of goods and passengers, is carried in prinative native dug-outs.

The sea borne coasting traffic is mainly carried in native (craft called **stiemër* There are thirty nine ports and subports, but these afford little protection from bad weather except
for the smaller boats that can enter the mouths of the rivers
on which many of them are situated. Coasting steamers of the
British India and Assatic lines call at the chief ports frequently,
except during the monsoon, and both lines carry passengers.

Famine in the strict sense is unknown in Malabar, since the south-west monsoon never fails. But though the District exports grain, it does not produce enough for its own consumption, and in a time of scarcity elsewhere the general rise in the price of foodstriffs, combined with the increased demand from neighbouring Districts, a hable to cause distress among the poorer classes, especially in the latter months of the monsoon when field labour is not required and the new harvest is not available. In the great famine of 1876-7 high prices were combined with a serious failure of the second crop, and gratintous rebef had to be widely given. Similar measures were necessary to a small extent in the monsoon of 1897, when an average of 6,000 persons were fed daily for five months.

For general administrative purposes the District is grouped mito an subdivisions. Three of these are usually in charge of Covenanted Civilians. They are the Phighat subdivision, comprising the Phighat and Pountin talkets: the Malappuran subdivision, comprising Ernad and Walavanad, and the Tellicherry subdivision, consisting of the Chirakkal, Kottsyam, and Kurumbianad talkets. The remaining three subdivisions, Wynaed, Calicut, and Cochin, formed of the talkets of the same names, are each under a Deputy Collector recruited in India. The outlying ports of Anjengo and Tamaassani were also included in the charge of the Deputy Collector at Cochin till 1906, when they were constituted into a new unit called the District of Anjengo, under the administrative control of the Resident in Travancore and Cochin. The Laccadive Islands fall under the administration of the Calicut divisional officer.

For judicial purposes the District is divided into North and South Malabar, with District Courts at Calcut and Tellacherry Subordinate to the former are three Sub Judges and twelve District Minnels, and to the latter, eight Minnels. The District ranks second in the Presidency in the number of the civil suits filed.

Grave crime is now comparatively rare, but since 1836 the public peace has been periodically disturbed by outbreaks among the Mappillas. Starting with the murder of a Hindu landlord, the looting of a house, or the defiling of a Hindu temple, a small body of these men will run not over the country, gathering adherents as they go, until finally brought to bay, when they invariably self their lives as dearly as possible Expenence has proved that native troops cannot be relied on to deal with these outbreaks, and since 1831 a detachment of Butish infantry has been stationed at Malapparam, the most

convenient centre of the menaced tract, and in the same year a special police force was organized for their suppression 1852 the Tangal (high priest) of TIRTRANGADI, who was sus pected of fomenting the disturbances, was benished by Mr Conolly, the District Magistrate, and in the following year a special Act was passed providing for the treatment of Man pills fanatics, and for the fining of the villages in which outbreaks should occur I we years later Mr Concily was murdered in his veranda by a body of fanatics who had escaped from the Calcut sail. The Manuella Act was then for the first time out. into force. The most senious outbreaks in recent years have been in 1873 at Kolattur in 1885 at Inkkalur in the Ernad take when twelve function took up a strong position in a Hindu temple from which they were only dislodged by the use of dynamite, in 1804 at Mannärakkät, when the gang numbered that, five and had to be driven from their position by a howitzer, and in 1806, when nearly a hundred men were shot down in the Mangari temple

Inquiries show that though agrarian gnevances, such as eviction by Hindu landlords, or the refusal of a landowner to grant's site for a mosque, have been the incentives to many of these outbursts, yet m all the big outbreaks it has been impossible to impute any definite motive to the majority of those who joined the gang. The one constant element is a desperate fanaticum surrender is unknown the martyrs are consecrated before they go out and hymned after death. Other noticeable features are that the gang mainly consists of men, or bovs, of the lowest class, while with few exceptions the outbreaks have originated within a radius of 15 miles round Pandalur, a hill in Ernad which was the home of one of the chief Mappella. robbers who disturbed the early years of British supremacy It less amid large tracts of uncleared jungle, which have long attracted the unsuccessful Mappillas, who are crowded out of their villages in the west, and who remain for the most part gnorant and destitute and ready on slight provocation to let their smouldering fanaticism kindle

Special efforts have been made for many years to encourage education and to open up the country in the fanatical zone, but the natural characteristics of the District and its inhabitants make progress in either of these directions necessarily slow Recently two regiments of Mappillas have been recruited for the Indian Army

In Malaber, unlike other Dutricts of Southern India, the Hindu rulers appear to have levied no regular land revenue, b

but to have contented themselves with customs and tolks and s with the occasional levy of special contributions. The Nilvari quickly attained pre-emmence among the various immigrant tribes, and organized the country on a military basis, dividing it into near, each under its Nayar chief, who in return for military service granted his vassals fiefs held free of land revenue and carrying with them various administrative and other privileges. The chiefs themselves retained domains for their own support. This organization was probably not disturbed by the Brahman immigration though the Brahmans in Malabar, as elsewhere, attamed great influence and received large grants of land for their own support and the maintenance of their temples, and the feudal system seems to have continued both when the said were combined into a kingdom, and when, on the abdication of the last of the Perumals, the country was again split up into sads. As the influence of the Rassa who succeeded to the Chera Lings declined, the process of disintegration continued, and the fiel holders and Brähman landowners naturally claimed independent lordship of their lands and these formed the bulk of the jamus (landowners) on whose share of the produce the Mysore assessment was eventually levied

Hardar Ah, on his conquest of the District at the end of the eighteenth century proceeded to introduce a regular system of land revenue. The various state were however, settled at different times and according to no definite system. The principle was to take for the government revenue a share in money of the passer's rent, or pattow, but the share appears to have varied from 10 per cent on some 'wet' lands in North Malabar to 100 per cent on gardens in South Malabar. The rate of commuting into money the rents paid in kind likewise varied in the different state, while in North Malabar the collection was entrusted to the chiefs of the state and in South Malabar to Muhammadan officials.

On the cession of the District to the British, the Commissioners appointed to settle the country adopted the Muham madan revenue assessment. During 1792—3 the Zamorin and other Rayls were allowed to collect the revenue, and in 1794 a system of quinquennial settlement with the Rayls of the wilds, based on the Muhammadan accounts prepared in 1782, was introduced. The samundars system, however, failed to work, the Government resumed the collection of the revenue, and, owing to the continued complaints of inequality, the Collector appointed in 1801 set himself to revise the whole

assessment on regular principles. On 'wet' lands one third. of the net produce, after deducting cultivation expenses, was to go to the cultivator, and the remainder or pattern was to be divided in the proportion of six tenths to the Govern ment and four tenths to the james. On paramos lands the gross produce of the trees was to be divided in three equal shares between the cultivator, the james, and the Government These principles were approved and a proclamation ustued accordingly in 1805 but the settlement was not proceeded with, as it was decided that the existing amessment was adequate and not unpopular. Subsequently a settlement of garden lands on these lines was taken in hand and introduced into various tabile between 1819 and 1840, and in the Kurumbranad täluk this settlement was revised in 1853 Otherwise the Muhammadan settlement of 1776 remained in torce till 1900, when the introduction of a new settlement, based on a scientific survey conducted between 1887 and 1895 and following the principles of the ristwari settlements of the other Districts of the Presidency, was begun

In the new settlement the cultivable land has been divided." into 'wet, garden, and 'dry' and acreage rates, based on " the Government share of the produce claimed in the procla mation of 1805, have been assigned. The new rates were introduced throughout the Dutrict by the end of 1903-4. The result will be an enhancement of the land revenue by about 76 per cent, or 13 lakhs, an increase which is to be attributed to the rise in prices during a period of more than a century and to the increase in the area brought under permanent assessment, which amounts to about so per cent above the area shown in the old accounts. Under the old settlement, wet 'rates varied from 4 annua to Rs 40 per acre, the average being Rs 3, for gardens and 'dry' land no accurate acreage rates are obtain able. Under the new settlement the 'dry' assessment averages (excluding the Wynaad) R o-13-2 per acre (maximum, Rs 2, minimum, 4 annes), the 'wet' assessment Rs. 3-8-11 (maximum, Rs 7 8-0, minimum, 12 annas), and the garden assessment Rs s-15-3 (maximum, Rs 7, minimum, R 1) The revenue from land and the total revenue in recent years are given helow, in thousands of rupees --

	uMo-t	μ i go-ι	1900 1	3904 4
Land revenue	21,39	90,98	#1,64	39,91
Total revenue	18.88	38,07		54 55

The landlord's right in the soil is held to vest in the james. The word ranges, literally meaning 'birth,' perhaps carries with it the idea of hereditary ownership. The probable evolution of the james as landlord has been sketched above now interpreted by the Courts, remness right means the proprietary interest of the landlord in the soil, and is freely bought and sold, but the idea of property in land is of comparatively modern growth. The commonest form of tenure under the towns is known, which word seems to mean literally 'visible property,' and to be applied to the min lent by a tenant to his landlard, or, originally, to the present brought by a retainer to his chief in return for protection. As now defined by the Courts, a Alexent implies a usufractuary mortgage entitling the mortgagee to a twelve years' occupancy with a right to his improvements, subject to the payment of an annual rent to the mortgagor. There are various submitiary forms differing according to the interest in the land secured to the mortgagor. The ordinary forms of sample lease (norumphition) and mortgage (plant) are now becoming common

Outside the five municipalities of Calicut, Cochin, Cannanore, Palghāt, and Tellischerry, local affairs are managed by the District board and the talkah boards of the five subdivisions of Tellischerry, Cabcut, Malappuram, Palghat, and Wynaud The expenditure of the boards in 1903-4 was nearly 4½ lakha, more than half of which was laid out on roads and buildings. The chief sources of income are the land cess and toll and ferry collections, yielding nearly s 67 and 1 59 lakha respectively. The District possesses none of the Unions common on the east coast, few of its villages being built in the close order which demands expenditure on sanstation.

Assestant Superintendent of police is assisted by three Assestant Superintendents, stationed at Pälghät, Malappuram, and Tellicherry. There are 105 police stations in the District and a outposts. The force consists of 24 inspectors, 3 European head constables, 141 head constables, and 1,125 constables. The special force reorganised in 1885 for the suppression of the Mappilla outbreaks, with its head quarters at Malappuram, consists of one inspector, 4 European head constables, 4 head constables, and 81 constables.

The Central juil is at Cannanore, while as subsidiary juils have a total accommodation for 527 presoners

According to the Census of 1901, Malabar stands fourth among Madras Districts in the literacy of its population, of

whom to per cent (17.4 males and 3-0 females) are able to read and write. Education is most advanced in the coast taluls, and most backward in the Wynaid, with its many cooles and hillmen, and in Ernad, the most distinctively Mappalla tähuk The total number of pupils under instruction m 1880-1 was 31,894, in 1890-1, 70,329, in 1900-1 84,408, and m 1903-4, 91,661, including 19,331 girls. On March 31, 1904, there were, besides 564 private schools, 1,038 public educational institutions of all kinds, including 954 primary, 75 secondary, and 6 training and special schools, and the three Arts colleges at Calicut, Palghat, and Tellicherry the public institutions, s4 were managed by the Educational department, 96 by local boards, and 50 by mumorpatities, while 639 were aided from public funds, and 229 were unaided but conformed to the rules of the department. As usual, the vast majority of those under instruction are only in primary classes, though Malabar stands third among Madras Districts in the proportion of pupils under secondary instruction. the male population of achool going age 24 per cent were under instruction in primary standards in 1903-4, and of the female population of the same age nearly 7 per cent Among Musulmins, the corresponding percentages were 35 and to respectively. Few of these have advanced beyond the primary stage, and a large proportion receive instruction only in the Koran. The total number of female pupils exceeded that of any other Dutnet. There were as primary schools for Panchama boys, with 908 pupils. The total expanditure on education in 1903-4 was Rs 5,18,000, of which Rs 2,10,000 was derived from fees. Of the total, 53 per cent was devoted to primary education

The District possesses 14 hospitals and 9 dispensaries, 1 meluding a leper hospital at Palliport (Pallipuram), near a Cochin, founded by the Dutch in 1728. They contain in all accommodation for 419 in patients. In 1903 the total number of cases treated was 261,000, of whom 5,100 were in patients, and 10,000 operations were performed. The total expenditure amounted to Rs. 78,000, the great part of which was met from Local and municipal funds.

Malabar is backward in regard to vaccination. Statistics to 1903-4 show that the number of persons successfully to vaccinated was 33 per 1,000, compared with an average for the Presidency of 30. Vaccination is compulsory only in the municipalities.

[For further information regarding the District, see Malaber,

by W. Logan (1887), and *Malaber Law and Castem*, by H. Wignam and L. Moore (Madras, 1900).]

Tellicherry Subdivision.—Subdivision of Malabar District, Madras, consisting of the Kottavan, Chirakkal, and Kurumbranan telesis

Kottayam.— Taket in the north of Malabar District, Madras, lying between 11° 41' and 12° 6' N and 75° 27' and 75° 56 E, with an area of 481 square miles. It contains 28 automs, or parishes. The population increased from 195,485 in 1891 to 209,516 in 1901. The land revenue demand amounted in 1903-4 to Rs 1,87,000. The only place of importance is Tallicharay (population, 27,883), the head quarters. The taket is shut in on the east by the Western Ghills, from which it drops rapidly down to the Indian Ocean on the west. Parallel to the coast are extensive terraces of laterite, barren themselves, but cut through by ravines and broken ground on which both trees and crops flourish luxuriantly, providing the fertile appearance which is such a charm in this District.

Chirakkal.-Northernmost tähel of Malabar District, Madras, lying between 11° 47' and 12° 18' N. and 75° 11' and 75° 41' E., with an area of 677 square miles. It contains 43 amount, or parahes The population increased from 310,941 in 1891 to 320,107 in 1901. The demand for land revenue amounted in 1903-4 to Rs. 3,39,000. It contains the seaport of CARDANORE (population, 27,811), which is also the headquarters, and the towns of TALIPARAMBA and VALARPALTANAM. In the north-eastern corner of the tolul two hill tribes are found, the Vettuvars and the Mavilers, who supply the agricultural labour of the country and are practically agrestic slaves. The females of these tribes wear nothing but green leaves, which are changed daily at noon. An attempt at reform in the matter of dress was once made, but to no purpose, as the individuals who tried the experiment of wearing clothes all came to untimely ends. The north-east and east of the taker are bounded by the great range of the Ghitts and the western side by the Indian Ocean. Along the coast the beach is generally low and sandy, but immediately behind it races the high lateratic formation which is characteristic of this part of Malabar, and the contrast between the red soil which this forms and the many groves and fields which he in the hollows among it is exceedingly picturesque.

Eurombraniid.—Coast state in Malabar District, Madras, lying between 11° 21' and 11° 48' N, and 75° 32' and 75° 59' E., with an area of 505 square index. It contains 104 amount, or

parameter. The population increased from 304,077 in 1891 to 327 310 in 1901. The land revenue demand amounted in 1903-4 to Rs 3,94,000. The head quarters are at BADAGARA (population, 11,319), the only other place of any importance being Quiland. The Korapula river forms a portion of the boundary between the Kurumbranad and Cahout takks. On the east the takes is bounded by the plateau of the Wynaad, and the line of hills which marks the edge of this forms a pacturesque background to the beautiful accepts in which the country abounds. The soil on the east is generally red and laterate, in the interior it becomes a rich loam, which is sometimes cultivated with rice, while towards the coast it is a loose brown earth of inferior fertility.

Wynard.—Highland subdivision and talks of Malabar District, Madras lying between 11° 27 and 11° 58 N and 75° 47 and 76° 27 E, with an area of 821 square miles. It contains 23 amisses, or parishes, and 75,149 inhabitants (1901), or less than 100 persons per square mile, which is a lower density than in any other Malabar talks. The population at the Census of 1891 was 76 762, and the decrease is due to the decline in the coffee industry. The head-quarters of the talks are at Manuscoddy, and the only other village of importance is Vayritiki, in the centre of the coffee-growing country. The land revenue demand amounted in 1903-4 to Rs 160,000

The Wynaed consists of a table land 60 miles by 30, lying amid the Ghats at an average height of 3,000 feet above sea level. Its most characteristic features are low ridges of hills, with sharp peaks (rising in some places to 6,000 ft.) and extenarve valleys. Fowards the east, where it morges into the plateau of Mysore, the country becomes more level. In the south east the Ghats are low till they meet the Nilgurs near NADLYATTAM, on the west and south west, where the takek toms the low country of Malabar, there are several peaks of over 6,000 feet. The talak contains wide forests, which abound m game and are rich in teak and blackwood and other valuable timber. The chief Government Reserves are the Chedleth range. of roo square miles of deciduous forest, lying round Sultan s Battery and the Begurpadn range of 85 aquare miles of deciduous and evergreen forest, lying round Manantoddy and up the slopes of the Brahmagura. The chief rivers are the Kabbani and Rampur, inbutaries of the CAUVERY The climate is demp and, for eight months of the year, cool fever for which the Wynaed was once notorious has become

less prevalent with increased clearing. The annual rainfall averages 130 mehes, but is much heavier in the west than in the east. Rice, rdes, and other dry grains are cultivated in the valleys and on the lower alopes, but the chief products are coffee, tex, and pepper. In 1904 there were 69 coffee plants. tions covering an area of 7,847 acres, of which about 4,800 acres were actually planted, and 27 tea plantations occupying 6,60s acres, of which 4,600 acres were under cultivation. The coffee industry was first introduced in 1805, but was not fairly established till about 1840, when several European planters opened up estates. The midustry reached its height about 1880 but it has since steadily declined, a fungoid leaf disease, which first appeared in 1868, and other pests having ruined many properties. To these have lately been added Brazilian competition, and the planters are now turning their attention to pepper and other special products. In 1904 the total out turn of coffee was 645 tons. Tes cultivation was introduced. m 1880 and has increased with the decline of coffee. The yield in 1904 was 863 ooo lb, much of it of excellent quality Cinchona bark was widely cultivated twenty years ago, but is now found only in small patches. Pepper cultivation is on the increase, and is at present profitable, the vines are larger than in the low country, and give beginer crops

Calicut Tāluk.—Coast subdivision and tāluk in the centre of Malabar District, Madras, lying between 11° 10' and 11° 33 N and 75° 45 and 76° 9 E, with an area of 379 square miles. It contains 74 amsent, or parabes. The population increased from \$37,68s in 1891 to \$55,61s in 1901. The land revenue demand amounted in 1903-4 to Rs. \$,\$0,000. The tāluk contains the municipality of Calicut (population, 76 981), the head quarters of the District, and the scaport of Beypore. The Conolly Canal, about 3 miles long, connects the Korapula and Kallayi rivers. On the east the taluk is bounded by the plateau of the Wyrand, the chief road to which runs through it. The whole is covered with picturesque undulations, well wooded and interspersed with rice fields.

Malappuram Subdivision,—Subdivision of Malabur District, Madria, consisting of the Ernad and Walas and Malab

Ernald.—Takes in Malabar District, Madria, adjoining the Nilgins, and lying between 10° 57 and 11° 31 N and 75° 49' and 76° 33' E, with an area of 979 aquare miles. It contains 54 contains, or parishes. The population increased from 343,775 in 1891 to 357,141 in 1901. The land revenue demand amounted in 1903-4 to Rs. 340,000. The only

places of importance besides the head quarters (MANJERI) are the military station of MALAPPURAM, and the villages of Ferome, Nillameter, and Tiruramean. The Asket is made up of hills clothed with forest. The eastern portion includes the valley of Nillameter, which produces the finest teak and other tumber in the District. The centre contains several smaller ranges which separate more level valleys. The coast portion is more gently undulating, and is intersected in all directions by low ground in which ness is extensively cultivated.

Walayand —Inland take in the south of Malabar District, Madras lying between 10° 45 and 11° 14 N and 76° 5 and 76° 48 B, with an area of 88a square miles. It contains 118 assesses, or parabes. The population increased from 328,068 in 1891 to 351,112 in 1901. The land revenue demand amounted in 1903 4 to Rs 4,17,000. The head quarters are at Angadipuran (population, 4,500). The talest runs along the foot of the Western Ghata, many of the spure of which extend into it. A detached portion, the Attapadi Valley, hes beyond this range. The rest is a series of hills and dales, the former of which are covered with groves of fruit trees and dotted with the dwellings of the cultivators, while the latter are cultivated with rice watered from the perennial streams which rise among them

Paighat Subdivision —Subdivision of Malabar District, Madres, consisting of the Palgran and Ponyant tabular

Pright Take —Southernmost take of Malabar Dutrict, Madras, lying between 10° 25 and 10° 57 N and 76° 25 and 76° 51 E, with an area of 643 square index. It contains 113 smeams, or paralles. The population increased from 372,133 in 1891 to 390,098 in 1901. The land revenue demand amounted in 1903-4 to Rs. 4,94,000. The only place of importance besides Paight (population 44,177), the head quarters, is the village of Kollandon. The Aska has in the remarkable break in the Western Ghats which is known as the Palght Gap, on the north it is bounded by spurs which run up to the Nilgin plateau, while on the south it is faced by the great Anamalia Hills. The forests which he at the foot of these two masses of hill are some of the densest in the Presidency.

Poundari Think.—Southernment coast think of Malaber Desired, Madres, lying between 10° 15 and 11° 3 N and 75° 58' and 76° 13' E, with an area of 486 square rules. It contains 73 sessess, or parabos. The population increased from 449,290 in 1891 to 478,376 in 1901, giving a density of 1,123 persons per square mile. It at the most populous **sakk**

in the District, and the density is greater than in any other in the Preindency. The land revenue demand amounted in 1903-4 to Rs 5,19,000. The head-quarters are at the seaport of Powkasi (population, 10,56s), attuated at the mouth of the river of the mime name. In comparison with the other tabels of the District, Pounam is flat and miniteresting, especially along the coast. Inland, however, are some small ranges of low hills, clothed with scrub or rough grass, and between these, as usual in Malabar, wind green rice fields fringed with groves of trees.

Cochin Think.—Coast subdivision and taken in the south of Malabar Duenct, Madras, lying between 9° 58 N and 76° 14′ R, with an area of a square miles. It contains one assess, or parish, and is surrounded on all index but the west by the Native State of Cochin. The population increased from \$3,715 m 1891 to 25,859 m 1901. The land revenue demand amounted in 1903-4 to Rs 20,000. The head quarters are at the scaport of Cochin (population, 19,874). The villages of Argando and Tangasturar were treated, for administrative purposes, as portions of the Cochin taken up to 1906, when they were formed into a new Dustrict of Anjango under the control of the Resident in Travancore and Cochin.

Luccadive Islands (Laksha devi, 'the hundred thousand niles) -A group of coral stells lying off the Malabar coast in the Madrus Presidency, between 8° and 14° N and 71° 40' and 74° B. The nearest, Androth, is about 140 miles from the The five northern uslands, specifically known as the abore AMPHIDIVI ISLANDS, are attached to the District of South The remainder, sometimes called the Cannanore Islands, belong to Malaber Dustrict They comprise Androth (population in 1891, 2,999, and in 1901, 2,441), Kavaratti (2,021 and 1,050), Agath (1,183 and 1,215), Kalpeni (1,236 and 1,562), and Minicov (2,198 and 3,097), all of which are between I and a square miles in area, and also Subels and Pitti, which are unmhabited. There are eight other smaller dependent rulets. Minicory has 100 miles south of the others and belongs ethnically and geographically to the Maidives, though politically it is attached to the Malabar group

The conformation of all the islands is almost identical. They are crescent shaped banks, not more than 10 or 15 feet above sea level, lying along the eastern are of an oval coral reef which stretches from north to south for 1 to 6 miles in length by under a mile in breadth. The western are of the reef is a line of coral rocks, visible only at low water, with one or more

outlets to the open sea. Inside the reef is a shallow lagoon, large enough to act as a harbour for the native craft, and so sheltered by the reef that even in the worst weather coco nut fibre can be scaked in it without danger of being washed away. Outside is a gradually sloping bank of dead coral, which varies from 100 yards to three-quarters of a mile in width, and ends abruptly in a precipace, at which soundings drop suddenly from so fathours to over 200. It seems probable that these atolls have been formed on the summits of a mountain range, that they first rose to the surface in the form of shallow oval basins, and that under the protection of the reef the eastern run gradually developed towards the centre, forming the island. This process of development towards the centre of the lagoon is still going on in some of the islands, while in Androth it is practically finished and no lagoon is left.

The superficial geological structure of the mlands as as follows —

'Beneath a thin layer of vegetable humins there is fine cotal sand, a few feet below this comes a compact crust of fine conglomerate that looks like course colinc limestone with embedded bits of shell, beneath the crust of coral-stone, which —as it is easy to cut and becomes hard when exposed to the air—makes a good building stone, there is another layer of fine sand, and then at a depth of about 6 feet from the surface the ground water is tapped'

Wells and pits for soaking coir are thus easily made, and are plentiful on all the islands. The water in them is good, though slightly brackish. It rises and falls with the tide The surface soil of coral sand or loose coral stones is naturally so barren that there is little spontaneous vegetation in most of the mlands, but the conditions are especially favourable to the growth of the coco nut palm, which is the staple product of all of them. Both the tree and the not are smaller than those of the memland, but the tree bears much more quickly, m some cases within two years. In most of the islands the coral substratum has been quarried out in patches and the damp subsent of sand laid bare for cultivation. These patches of arable land, which are known as tettam or garden, are used for raising rage, millet, plantame, yams, and other vegetables No rice is grown, and the islands are entirely dependent for it on the mamband. Limes and jack trees flourish on all the uslands, and a few areca palms on the more fertile. An attempt to grow casuarum for firewood was made in 1893, but it was a failure. Androth, which is the most fertile of the islands, contains about too acres of fetters, while Minitoy is practically monopolized by the coco-nut. The annual ramfall averages 50 inches

There are cattle and goats on all the mhabited islands, though very few in Minicoy, and many fowls and cats (Mus referent) abound and do much damage to the coco nut trees. The Government has tried various remedies, such as the importation of makes, mongooses, and owls, to get rid of the pest, but with little effect, and the numbers are only kept down by the native institution of the koot (Allittan), or periodical nat hunt, in which the whole male population is forced to join. Turtles and the sea slug (Holsthurss), originally a valuable article of commerce, are plentiful, comb and shells of all kinds, from the course to the king conch, are found, the largoons are full of fish of every kind and colour, while in the open water sharks, porposes, and mas or bonito (Thywnus pelastys) occur. There are no land birds on the islands except tria, golden players, and a few specimens of the ubiquitous The heron, peregrine, and kestrel are occasional Of sea birds the commonest are turnstones, sand pipers, and many varieties of terp, but no gulls. Insects are few, but the mosquito abounds in Minicoy, and most of the inhabitants use mosquito curtains.

Tradition assigns the first settlement of the minds to a shipwrecked party of Malayalis who were on their way to bring back king Cheraman Perumal from Mecca in the moth century, and the unniarity of the language and customs of the islands to those of the coast leave no doubt that, with the exception of Minicoy, they were originally colonized by Hindus from Malabar. These are said to have been converted to Islam in the thirteenth century. The colorists acknowledged the supremacy of the Koistin Ripl, with whose dominions they carried on most of their trade, but their government was practically independent until the rise of the family of the All RESE of CAMMANORE, the chief admiral of the Kolettin RESE, to whom the islands were given by the latter in the sixteenth century as an estate. The Alt Raps continued to rule over there till 1791, when they fell to the British with the conquest of Cannanore. After long discussion, a settlement was made with the Bibl of Cannanore in 1796, by which she agreed to pay an annual sections for the Laccadives and her property at Cannanore, retaining the administration of the former, and this settlement continues in force to the present day, though the islands are now administered by the British Government, having been sequestored for arrears of revenue in 1875.

The people are all Muhammadans In habits and customs they resemble the Mappellas of North Malabar, except that the women hold a more important position, and are not veiled They follow the Marumalkattayam system of or secluded inheritance (i.e. succession in the female line) language is Malayillam, but in writing it they use the Arabic characters. They are divided into three main castes. Karna. vans or Koyas, the anstocracy, who claim descent from Nambudras and Nayars, and originally monopolized land and boat owning. Malumis or Urukkārs, the sailor caste, who sailed the Karnavana' boats, and were allowed small holdings of land on various conditions of service on their lords' lands and in their bosts, and Melacheris or climbers the serfs, whose duty was to pick coco nuts till their lords' lands, row the boats, and so forth. In Minicoy both the people and their customs differ from those of the other islands

The population of the miands has remained fauly stationary In 1845 it was estimated at 7,700 for the four northern islands, and in 1901 it was 7,180, but individual islands have experienced great fluctuations. In the great cyclone of 1847, 300 were killed in Androth and 500 in Kalpeni, while in 1894. nearly 1,000 persons are said to have died from cholera in Androth Education makes slow progress. Out of 10,274 persons, only 461 were returned as literate in 1901, of these 51 were females. The chief industries are the preparation and exportation of cour fibre, the manufacture being done by the women, and fishing Bendes corr, quantities of coco-nuts, copra (dued coco-nut kernels), tortouse-shell, and cownes are exported to the mainland in exchange for rice. The original organization of society was patriarchal. The 'lli Raya governed by means of agents (karyahars), who were assisted by heads of families. At present there is an Amm on each island, who is appointed by the Collector of Malabar, and is responsible for all details of administration.

The revenue is derived from the Government monopoly of the trade in coir, cownes, tortoise shell, and ambergus, of which the first is the most important. During the last twenty years the average out turn of coir fibre has been about 1,400 candies of 560 lb. Since the sequestration of the islands in 1875, the receipts have averaged Rs 56,820, and the expenditure Rs 47,460.

Angudipursum ('market town') —Village in Malabar District, Madras, satusted in 10° 59' N and 76° 15' E. It is the head quarters of the Walsvanild Mind and of a District Munuf

and a stationary sub-magistrate. Population (1901), 4 500. The place has an important market, and is notable for its temple, a binking of great sanctity, and as having been (in 1849) the scene of one of the most desperate of all the fights with the Mappulla families.

Amengo -British village within the limits of the State of Travancore, on the Arabian Sea, situated in 8° 40 N and 76° 45 E, about 72 miles north of Cape Comorus Until 1906 it was administered as part of the Cochin takek of Malabar District, Madras, but in that year a new District of Anjengo was constituted, including also Tavoassers, and placed under the administrative control of the Resident in Travancore and Cochin Anjengo itself is now hitle more than a fishing village, but it was one of the earliest English settlements in India and once of considerable importance In 1684 the East India Company obtained permission from the Ram of Attingal to occupy the site, and a factory and fort were built in 1695. In 1731 the area of the settlement was increased by the grant of certain gardens, which were handed over to the Company by the Raja of Travancore and Ram of Attmod, in compensation for the murder of the Chief of the factory and ten others, when on a vasit to the Rim m The Company hoped that the advantages of the position as a centre for trade in pepper, eoco-mit fibre, and cabco would outweigh the defects of the port, and for some time the factory prospered, and the Factor was Second in Council in Bombay During the Carnatic Wars Anjengo was used as a depôt for military stores and was the first signalling station for ships from England, but by 1792 it had altogether declined. It contains the runs of a fort and an old Roman Catholic church, in which are some interesting oil paintings It was the buthplace (1728) of Robert Orme, the historian, son of a Chief of the factory, and the home of Sterne's friend Eliza Draper The total area is about 250 acres. In 1001 the population numbered 3,084, of whom half were Chrumana

Attaphed: Valley ('valley of leeches')—A truct in the Walavanied takek of Malahar District, Madras, lying between 10° 54' and 11° 14 N and 76° 27 and 76° 48 E. It is about 250 square inles in extent, and has behind the ridge of Ghitts which stretches from the Kumdans south west to the Pälghät Cap. The valley contains the source of the Bravani river and is mainly covered with thick forests, though grain is cultivated in parts by the Irules who inhabit it. It is very favorish for most of the year.

Badagara ('north bank')—Town in the Kurumbranād tālad of Malabar District, Madras, situated in 11° 36' N. and 75° 36' R., on the sea-coast, at the northern extremity of the Elattur-Badagara backwater, and on the trunk road and the railway from Calicut to Cannanore. Population (1901), 11,319. The value of the imports by sea in 1903—4 was g lakhs; of the exports, 34 lakhs. The former consist chiefly of rice and salt; the latter of coco-nuts, copra, pepper, and timber. Badagara is a busy town, and the head-quarters of the tālad and of a sub-magistrate and a District Munsif.

Beypore River.-River of Western India, flowing into the Arabian Sea in 11° 10' N. and 75° 50' E., and the most important of the rivers in the south of Malabar District, Madras. It is fed by numerous streams which drain the NILAMBUR Valley, the chief of which are the Ponpula, or 'gold river,' the Cholayar, and the Karimpula. They unite above Nilambur, and the river flows through the north of Renad. forming the boundary of that tāluk. It is about 90 miles in length, and navigable at all seasons as far as Mambat at the foot of the Vayul range; in the mins small hoats go up beyond Nilambur, and timber is floated down in large quantities from the forests above. Near its mouth the river is connected by narrow channels with Kallayi, the chief timber depôt of the District, and with Callett by the Comolly Canal. The bar at the month has always 12 feet of water over it, and at high tides from 16 to 18 feet.

Beypore Village.—Village in the Calicut think of Malaber District, Madras, situated in 11° 11′ N. and 75° 49′ E., near the mouth of the river of the same name, on its right bank. Many attempts have been made to utilize the natural advantages of the position, but not with much success. Saw-mills were opened in 1797, a canvas factory in 1805, ironworks in 1848, and later a shipbuilding yard; but all failed. For some years it was the terminus of the Madras Railway on the west coast. Population (1901), 1,500. The value of trade in 1905–4 was: imports, a lakhs; exports, 9 lakhs.

Callent City.—Head-quarters of the tiliah of the same name, and also of Malabar District, Madras, situated in 11° 15' N. and 75° 47' E., on the Madras Railway, 414 miles from Madras City. It is a picturesque place, the streets winding through continuous groves of palms and other tropical vegetation. In addition to the various public buildings and institutions usual in a District head-quarters, it contains a branch of the Bank of Madras, and a Lunstic Asylum with accomposition

for 135 persons. The chief suburbs are at West Hill, 3 miles north of the old town, where are the barracks of the British infantry detachment and the Collector's house, both on small hills, and at Kalläyi, the centre of the timber traffic at the mouth of the Kalläyi river

Calcut is the fourth largest city in the Presidency, and in 1901 had a population of 76,981 (42,744 Hindus, 30,158 Muhammadana, and 4,007 Christiana). In 1871 its inhabitants numbered 47,902, in 1881, 57,085, and in 1891, 66,078, so that it is a growing place. The rate of increase during the last decade was as high as 16 per cent. The chinate is on the whole healthy, though relaxing, but the want of a dramage and water supply system renders the crowded quarters of the town insanitary. The city was constituted a municipality in 1869. The income and expenditure during the decade 1890–1900 averaged Rs 66,000 and Rs. 63,000 respectively. In 1903-4 the income was Rs 83,000 (mainly derived from the taxes on houses, land, and professions), and the expenditure was Rs 81,000.

The vernacular form of Cahcut is Kolikod, which means 'cock fort'; and the tradition regarding its foundation is that when Cheraman Perumal, the last of the kings of Malabar, retired to Mecca in the ninth century and divided his kingdom among his chiefs, he gave to the Zamorin of Calicut as much land as a cock crowing from Talk temple could be heard over. The Zamorins, with the help of Arab traders actiled at Beypore, soon extended their powers and made the town the centre of a dominion extending from Tikkodi to CHITWAI The Arab writers of the thuteenth century describe Calicut as one of the great ports of the west coast, full of magnificent buildings, and noted for the security to trade afforded by the power of the Zamorm and the parties with which he treated foreign settlers. In the fifteenth century the place seems to have been the most important town in Malabar. It was the first port of India vanted by Europeana, and gave its name to calico, one of the chief articles of the early trade, but, owing to the opposition of the Arab traders, the European settlements here were not so important as those at Cochin and CAMMANORE. The Portuguese adventurer Covilham was the first European to visit Calicut (m 1486), but trade only began with the arrival of Vasco da Gama in 1498. A factory was established, but Da Gama was badly treated by the Zamorus. Two years later Cabral established a factory of seventy Portuguese, which was immediately destroyed by the Mappillas, and

most of the immates intindered. In revenge the town was bombarded, and the port was then left alone by the Portuguese for some years. In 1510 Albuquerque attacked Calicut at the instigation of the Raja of Cochin, but was repulsed. A year later the Zamorin allowed the Portuguese to binkl a fort on the north bank of the Kallayi river, but he continued secretly hostile to their trade, the fort was abandoned in 1525, and the Portuguese did not again attempt a settlement at Calicut itself

The English connexion with the town dates from 1615, when Captain Keeling arrived with three ships and concluded a treaty with the Zamorm, but no settlement was established till 1664, when a trading agreement was made with the Zamorm by the East India Company. The Zamorm, however gave little encouragement to the Company, and it was not until 1759 that they were allowed to tile their factory. The French settlement dates from 1698. During the wars with France it thrice came into the possession of the English, but was finally restored to France in 1819. It at present consists of about 6 acres of ground, called the Loge near the sea shore south of the pier. The Danish Government established a factory at Calicut in 1752. It was partially destroyed in 1784 and soon afterwards incorporated in the British settlement. The Dutch never had any station at the place.

During the Mysore Wars the town suffered severely, and was twice pillaged by the Muhammadan armies, in 1773 and 1788. On the latter occasion Tipu Sultan made a determined effort to establish a rival capital at Fricouri on the south bank of the Beypore river, but the attempt failed. In 1790 Calicut was occupied by the British in their operations against Tipu, and by the Treaty of Seringapatam in 1792 it finally passed under the dominion of the Company.

Calicut now ranks second among the ports of Malabar and fourth among those in the Presidency. During the five years ending 1902-3 the value of its imports averaged 72½ lakhs, and of its exports 132 lakhs. The corresponding figures for 1903-4 were 57½ lakhs and 136 lakhs. Grain and salt form the bulk of the imports, while one fourth of the exports consist of coffee. The town contains a steam spinning mill, established in 1883, with an annual out turn of 550 tons of cotton yarn, a steam manure factory, which produces every year about 1,950 tons, and a steam saw mill in the suburb of Kallayi, at which timber to the value of 2 lakhs is sawn annually. There are also steam tile works and coffee curing works and a steam of mill. The chief temple of the town is held in much repute.

Cannanore — Head quarters of the Chrakkal talah of Malahar Dustrict, Madras, attracted in 11° 52′ N and 75° 22′ E, m a shallow bay of the Arabian Sea, 470 miles by real from Madras City Besides the usual public offices the town contains a branch of the Basel German Musicon, with a mercantile establishment where various cotton fabrics are manufactured, and a Central pail with accommodation for 865 males and 31 females

Cannanore was once the capital of the Kolattin Raja, the chief rival of the Zamorin, and became an important emporium of trade with Persia and Arabia during the twelfth and thriteenth centuries, from which time dates the rise of the family of the Ali Rajas, or Sea Kinga, of Cannanore. Their origin is uncertain, but tradition assigns the foundation of the family to a Nayar minister of the Kolattin Raja, who was converted to Islam about the beginning of the twelfth century. Towards the end of the century the family appears to have obtained the port and town of Old Cannanore as a grant from the Kolattin Raja. The Ah Raja became his chief admiral and the head of the Cannanore Mappallas, and his power gradually increased till by the eighteenth century he was practically independent of his success and was able to put 25,000 men in the field

Campanore was one of the earliest Portuguese settlements In 1498 Vasco de Geme touched there, by invitation of the Kolattan Raja, on his way home from Calicut. Three years later Cabral founded a factory, and in 1502 De Gama, on has second voyage to India, concluded a treaty with the Raja and left 200 Portuguese in Cannanore The factory continued to flourish, and in 1505 Almeyda was allowed to build a fort the next year he won a great naval victory in the Cannanore bay over the Zamorin and his Mappillas, which finally established the Portuguese naval supremacy. The fort and factory continued in possession of the Portuguese till they were conguered by the Dutch in the middle of the seventeenth century The Dutch held the fort till 1771, when they sold it to the Ali Rays, whose power had considerably increased during Haidar Ah a first measure. In 1783 the fort was taken by the British, as the Bibl of Cammanore had detained ago British soldiers on their way to join the forces against Tipd, but in the next year the Babs entered into a treaty with the British and the fort was restored to her Finally, in 1790, owing to the unsatisfactory behaviour of the Bibl, who had throughout secretly favoured the Mysore Suittin, Cantanore was again beneged and the Bibl made an unconditional surrender. Campanore then became

the military head quarters of the British on the west coast, and continued to be so till 1887, when the head quarters was transferred to the Nilgins. A settlement was made in 1796 with the Bibs, who agreed to pay Rs 15,000 per annum as the assessment 'on her houses, parameter, &cc., in and near Cannanore, and on her trade and passwase property in the Laccanive Islamps' The settlement appears to have been similar to the temporary settlements for the collection of revenue made with the other Malabar Rājas, which were subsequently super seded by the passwase system, but the settlement with the Bibi has continued in force till the present time

Cannanore has lost a good deal of its importance as a trade centre. It now ranks fourth among the ports of Malabar, the value of its imports in 1903-4 being 25 lakhs and of its exports 15 lakhs. Pepper, salt fish, and cotton fabrics are the chief exports, and noe and cotton yars the chief imports. It has also suffered from the decline of its importance as a military station, and the many untenanted bungalows are a melancholy reminder of departed prosperity. The south west line of the Madras Railway is now being extended to South Kanara, via Cannanore. The population in 1901 was 27,811, including 11,711 Hindus, 12,893 Muhammadana, and 3,180 Christians. The town was made a municipality in 1870. The moome during the decade 1890-1900 averaged Ra 29,000, and the expenditure Rs 28,000. In 1903-4 they were Rs 38,000 and Rs 37,000 respectively, the chief income being from the taxes on houses and land.

Chetwai.—Village in the Ponnain taket of Malabar District, Madras, saturated in 10° 32° N and 76° 3′ E, in the american (parish) of Vadanapalli. Population (1901), 3,226 It was formerly the terminus of the line of backwater communication extending to Cochin and Travancore but is of little importance now that communication by water has been opened up to Ponnain. In 1717 the Dutch took Chetwai from the Lamorin, built a fort, and made it the capital of their province of Pappi invattam. In 1776 the fort was captured by Haidar Ah Chetwai passed into British possession in 1790 and was leased to the Cochin Raja till 1805, when it came under the Company a direct administration. Only the foundations of the fort now remains.

Chowghat (Changhat) — Town in the Ponnam taket of Malabar District, Madras, situated in 10° 35 N and 76° 2 R Population (1901), 7,426 It was formerly the head quarters of a staket of the same name, which was amalgamated in 1860 with Kutnad and Betsinad into the present taket of Ponnam

It contains a District Missafs court and a deputy takeldar's office. At Palayur to the east there is a Romo Syrian church, noted as one of the seven original churches of Malabar. The town has on a backwater, connected by causis with Ponniru on the north and Travancore on the south

Cochin Town.—Head quarters of the subdivision and take of British Cochin in Malabar District, Madras, aitnated in o° 58 N and 76° 14 E, on the coast within the limits of the Name State of Cochin. The northern portion of the town contains several streets of picturesque Dutch houses Anglican church, a plam massive building, was formerly the properpal chapel of the Franciscan monastery. The age of the present structure is unknown, but inscriptions on the tombstones formerly in the floor of the nave prove the existence of a church on the spot before 1546. The backwater forms a magnificent natural harbour several agnere miles in greswith a deep-water basin of 7 to 9 fathoms near the mouth, which is kept from alting up by the heavy acour of the tides The bar is at a distance of about a mile from the abore, and carries a maximum of 18 feet of water and a minimum of 12 It has frequently been proposed to make the harbour available for ocean going vessels by deepening the har and running out breakwaters, but the expense and difficulties of the undertaking have hitherto prevented anything being done At present steamers anchor about a miles off the shore in 51 to 61 fathoms

The tradition is that Cochin was originally a small town on the bank of a small river (Kacki, httle'), and that it was swept away in 1341 by violent floods, which changed the whole face of the neighbourhood, forming the present harbour and the island of VVPIN. Tradition is supported by the fact that the erm Pudiya Veppu ('new deposit') is used to denote an erabeginning in 1341, and there is no doubt that violent changes of this nature have frequently taken place along the coast. The present situation, commanding the entrance to a back water which taps an immense area of rich country, soon attracted settlers, and Cochin became the successful rival of the port of Crängatur.

The history of the present town begins with the arrival of the Portuguese. In 1500 Cabral came to Cochin after his attack on Californ and met with a friendly reception from the Raps, who is described as a reluctant vasual of the Zamorin He returned to Portugal with a large cargo of pepper. In 1508 Vasco da Gama on his second voyage visited Cochin

and founded a factory. The next year Albuquerque armyed mat in time to assist the Cochin Raia, who was besieged by the Zamorin in Vypin The Zamorin was driven off and Albu querque was permitted to build the Cochin fort, which he called Manuel Kotta. It was the first European fort built in In 1504 Pacheco, who was left in change of the fort, was besieged by the Zamorin, but managed with some difficulty to repel the attack. The next year Almeyda arrived as viceroy, and rebuilt and enlarged the fort, and the Portuguese settle ment does not appear to have been further troubled by the Zamorm It became the chief of their settlements till the capture of Goa. In 1530 St Francis Xavier came to Cochin and made many converts in 1557 the church of Santa Cruz was consecrated as the cathedral of the Bishop of Cochin, and in 1577 the Society of Jesus published at Cochin the first book printed in India | The first Englishman to visit the town was Ralph Litch, a traveller, who came by way of Bagdad and the Persian Gulf in 1585, but no English settlement was made till 1034, when the East India Company entered into a treaty which gave them free access to Portuguese ports. In the next year pepper was for the first time exported direct from the west coast to England In 1663 the town and fort were captured by the Dutch, and the English retired to PONNAMI Under the Dutch the trade of Cochin increased considerably, and the customs are said to have amounted to Rs 30,000 annually The Dutch remodelled the town, building substantial European houses, quava, are. They also converted the cathedral of Santa Cruz into a warehouse. Later on the fort was entirely rebuilt by Van Moens (1778) The cathedral, the fort, and many of the Dutch houses were subsequently blown up in 1806. by the Lughsh On the conquest of Holland by the French in 1795 the East India Company was ordered to take possession of all the Dutch Colonies The Dutch Governor, Vanspall, refused to surrender Cochin, and it was therefore besteged and captured by Major Petrie on October 20, 1795. The settle ment was taken under English protection, but the Dutch were allowed to retain their laws and administration. The town was finally ceded to the Company under the Paris Convention. Q 1814

Cochin is now the chief port of Malabar and the third in importance in the Madras Presidency. The value of its imports in 1903-4 was 8s lakbs, and of its exports so8 lakbs. During the last twenty years the trade of the pott has trebled. The main exports are ecco nut oil and coir. Cochin monopo-

lizes the trade of the Presidency in the former and accounts for three-fourths of the trade in the latter. There is also an increasing export of tea from Travencore, its value in 1903 4 amounting to nearly 10 lakhs. Of the import trade more than half is in rice, from Burma and Bengal. The other chief articles of trade are pepper, timber, cotton twist and mecegoods, and kerosene oil. The population in 1901 was 19,274. of whom more than half were Christians, including a large Eurasian community The income of the municipality which was constituted in 1866, during the decade 1890-1900 averaged Rs 20,300 and the expenditure Rs 10,500 1903-4 the corresponding figures were Rs 22,600 and Rs 21,700, the main source of meome being the tixes on houses and land. The climate is very most and hot, and elephantiasis is common owing to the bad water. A scheme is now under consideration for bringing a supply from the Alwaye river, about so miles distant.

Concilly Canal.—Canal in the Calicut tehek of Malabar District, Madras. The canal proper, which was constructed by Mr Concily, Collector in 1848, consists of a cutting about 3 miles in length running through Calicut city and connecting the Elattur or Kompula and Kallayi rivers. It thus forms part of the line of water communication from Badagara to Beypore

Delly, Mount.—A prominent headland, 855 feet in height, on the coast of the Chirakkal taluk of Malahar Datrict, Madras, artusted in 12° s N and 75° 11 E. The correct name is Mount dEh (the Monte d'Ely of the Portuguese), from the ancient Malabar State of Els or Heli, belonging to the Kolatim Rapis, one of whose seats is near the northern slopes of the bill. The headland was a well known landmark for mariners from the earliest times, and was the first Indian land sighted by Vasco da Gama. On the top is a small mosque, which is visited on certain holy days by large numbers of Mappiliss Creeks on either side made it almost an island, and its natural strength led to the construction of a fort, which was neld in turn by Portuguese, Dutch, French, and English troops. Within night of the hill more than one naval action. has been fought. The bay to the south was formerly a regular resort of the parates who infested these shores. A project to construct a harbour here was once set on foot, but was abait doned on account of the great expense involved

Emastikkai Lake —A shallow lake in the Ponnani tilka of Malahar District, Madras, lying between 10° 26' and square miles, the major portion of which lies within the limits of Native Cochin, and is remarkable for the peculiar rice cultivation carried on in its bed. On the western side the lake is protected by a masonry dam from tidal influences. As soon as the dry weather has set in, artificial dams of bamboo and mild are raised to a height of 4 or 5 feet all over the lake, and the water is haled out of each partition by means of Persian wheels and steam pumps into channels, which form waterways high above the cultivation on either side. The soil of the lake is a very fine silt, and excellent noe crops are raised

Ferokh.—Village in the Ernad testals of Maisbar District, Madras, situated in 11° 12′ N and 75° 49 E, seven miles from Caheut, with a station on the Madras Railway. Population (1901), 3,500. It has an important weekly market and a tile factory. The chief trade is in timber, dried fish, and coconits. In 1788 Tipu Sultan of Mysore made a determined but ineffectual attempt to raise the town to the position of a rival to Californ

Guruwäyür.—Village in the Ponnän takak of Malabar District, Madria, situated in 10° 35 N and 76° 3 E, near Chowghat Population (1901), 3,393 It is notable for a large Hindu temple dedicated to Krishna, an inscription on the western gaparase (tower) of which shows that it was built in AD 1747 The wall of the shrine is elaborately painted with scenes from the Bhagavatam. The temple is largely resorted to by the nick

Kollangod.—Town in the Palghät takek of Malabar District, Madras, situated in 10° 37 N and 76° 41 E. Population (1901), 9,800. It is the rendence of the Nambidi of Kollangod, a landed proprietor who owns estates in the Nelliampathi and Anaimalai Hills, and it has a high school maintained by the Nambidi, and a weekly market About a miles to the south is a large Hindu temple known by the name of Kachankurichi. Since the opening of the coffee estates in the Kollangod and Nelliampathi Hills the trade of the place has improved

Korapula River.—River in Malaber District, Madras, 3s miles long, but shallow and of small commercial importance. It forms the boundary between North and South Malabar, a division still of importance in the social organization of the country. A Nayar woman of North Malabar may not cross it.

Malappuram.—Town in the Ernad Albert of Malabar District, Madras, attented in 11° 4' N. and 76° 4 E, 31 miles

south east of Cahent, with which it is connected by a good road. Population (1901), 9,216. It is notable as the centre for many years of the Mappilla functional outbreaks. A detachment of European troops has been stationed here since 1873, and a special police force since 1885. The chief buildings are the churches (Protestant and Roman Catholic), the divisional officer and magnituate's court, the barracks, and the office of the Assistant Superintendent of police. A weekly market is held here

Manantoddy.—Village in the Wynsad tāhih of Malabar District, Madras, attnated in 11° 49 N and 76° E. Population (1901), 2,000. It is the head quarters of the divisional officer and taknidār, and of one of the two Forest officers of the District.

Manjers.—Village in the Ernad tābih of Malabar District, Madras, situated in 11° 7 N and 76° 7 E. Population (1901), 4,000. It is the head quarters of the takeiller, of a stationary sub magnetrate, and of a District Munsif, and is notable as the scene, in 1849, of one of the worst of the Mappilla outrages. The native troops sent against the rioters were routed and Ensign Wyse was killed. Another outbreak occurred here in 1896, when 99 fanatics were shot.

Minicoy.—An island attached to the District of Malabar in the Madras Presidence, losing in the Arabian Sea in 8° 18 N and 73° E. The lighthouse on the southern end was imished in 1885. Politically Minicoy appertures to the Laccadive group, but ethnologically and geographically it belongs to the Maldive Islands. It is 6 miles long by half a mile in breadth, and contains an area of about 1½ square miles. Population (1901), 3,097. The physical characteristics of Minicoy are similar to those of the other Laccadive islands, but it contains no testion, or garden cultivation, and the coco-nut trees are smaller, and there is more jungle interspersed among the plantations.

The people are probably of Singhalese extraction, they are darker and smaller than the other islanders, their language is Mahl, and they have a disodocimal numerical system. Though Muhammadans they are strictly monogamous, and the women take the lead in everything except navigation. A girl's consent has to be obtained before marriage, and she brings no dowry, but receives presents from the bridegroom. There are three subdivisions among the people, the Mähkhans, the Mähimis or Takkarus, and the Kohlus, which correspond to the three found on the other islanders the

Minicoy people are all congregated in one village, which is divided into ten quarters or wards, in each of which the male and female populations are organized into separate clubs, each managed by its own head-man or head-woman and forming a unit for social and political purposes. The fishing hoats are very well made and the men are expert navigators. The mlanders' chief trouble is the food supply. All the nice has to be imported, and the trade is practically monopolized by the chief Malikhans. The revenue is raised by a poll tax and taxes on fishing boats, &c., and not by a monopoly as in the other islands. Minicoy came into the possession of the Ali Raja of Cannanore later than the other islands, probably not till the middle of the fifteenth century, as a gift from the Sultan of the Maldives, and this accounts for the difference in its administration.

Milambur.—Village in the Ernud tähak of Malabar District, Madras, situated in 11° 17' N and 76° 14' E, on the road from Manjeri to the Nilgiris by the Karkur ghat. Population (1901), 2,700. It is the head quarters of the District Forest officer, South Malabar. The Nilambur Valley, which hes below the Camel's Hump range and the Kundahs and is drained by the Beypore river, contains the chief Government forest Reserves of South Malabar. They extend over more than 150 square miles on the alopes of the Kundahs and along the head waters of the Karumpula river, and include 4,000 acres of excellent teak plantations started in 1843, the best logs of which fetch Rs 2-8 per cubic foot in the market. There are also small plantations of rubber and mahoguny Gold washing is still carried on to a very slight extent in the Upper Nilambūr valleys.

Paighat Town (Palkadu 'jungle of pal trees')—Head-quarters of the subdivision and talks of the same name in Malahar District, Madras, intuated in 10°46 N and 70°39'E, 335 miles by rail from Madras City.

It lies on the main road from Malabar to Combatore and the east coast, in the curious gap in the Western Ghits to which it gives its name, and its position as key to the west coast has always made it a place of importance both strings cally and commercially. The Palghat fort is said to have existed from very ancient times, but little is known of the early history of the place. The Palghat Achehan was originally a tributary of the Zamorin, but he had become independent

¹ An interesting account of Minicoy (Marco Polo a 'Female island') is to be found in *Blackweel's Magazine* for February and March, 1889

before the beginning of the eighteenth century. In 1757 he sent a deputation to Handar Alt praying for help against an invasion threatened by the Zamorin. Haidar seized the opportunity of gaining such an important position as Palghat, and from that time to 1700 the fort was continually in the hands of the Mysore Sultans or the British. It was first taken by the latter in 1768, when Colonel Wood captured at during his raid on Haider All's fortressos, but it was retaken by Haidar a few months later. It was again captured by Colonel Fullerton in 1783, but abandoned next year. In 1790 it was finally captured by Colonel Stuart, and from that time was used as a base for the operations which ended in the storming of Seringapatase. The fort continued to be garrisoned till the middle of last century. It is now used for the tābus office.

Palghat is the second largest town in Majahar, its population in 1901 being 44,177, of whom 37,285 were Hindus, 5,535 Muselmana and 1,340 Christiana. It is the centre in Malabar of the Patters or east-coast Brahmans. It was made a municipolity in 1860. The income and expenditure during the decade 1800-1900 averaged Rs. 62,000. In 1903-4 the income and expenditure were Rs. 80,000 and Rs. 79,900 respectively, the chief sources of income being the taxes on homes and land and the fees at the Victoria College. The Victoria College is one of the most successful second-grade colleges in the Presidency. It was founded as a school in 1866, and in 1888 was raised to the rank of a college and affiliated to the Madras University. In March, 1904, 488 students were on the rolls, of whom 138 were in the college department. There are also in the town religious and educational establishments belonging to the Roman Catholic and German missions. Palghat is the centre of the grain and miscellaneous trade between Kast Malabar and the adjoining Districts, and is a growing town. It contains two large becars and a permanent market, in which a large trade is done in food-grains, tobacco, oil, and cloths, and in the grass mats for which the town is celebrated. There is also considerable trade in timber, which is brought down from the Palehat and Walavanad forests and exported by rail.

Pomalini Town.—Head-quarters of the tähuk of the same name in Malabar District, Madras, situated in ro* 48' N. and 75° 56' E., at the mouth of the Pomaini riser. Population (1901), 10,562, mostly Mappillas.

It is a busy port, at which in 1903-4 the imports were

valued at 8 lakes and the exports at 6 lakes. Kerosene oil and salt are the chief imports, and coco-nuts, corr, and copra the chief exports. The Ponnini Thegal, or Mäppilla priest, is the chief of his sect, and the town is the centre of Muham madan education on the coast, possessing a religious college. There are twenty seven mosques, the principal of which, the Jamath Masjid, is supposed to have been built in 1510. Besides the usual think offices, the town contains a District Munisif's court.

The Pomnam river, which is the longest in Malabar, rises in the Anamalais and flows through the Palghat Gap due west, with a total course of about 150 miles. The bed of the stream, unlike that of most of the Malabar rivers, is shallow and usually contains little water, but during the rainy months it is navigable for a considerable distance inland, and is used for floating down timber from the hills near Palghat. At its mouth it is connected by backwater with Tirur station on the north, and by canal with the Viyattil lake and the line of backwater which extends to Trivandrum on the south

Quilândi.—Scaport in the Kurumbranad stank of Malabar District, Madras, attrated in 11° 27' N. and 75° 42' E. Population (1901), 5,870. It contains a sub inagistrate's and a District Munsif's court. It was close to this place that Vasco da Gama's fleet first cast anchor in 1498

Taliparamba.—Town in the Chriskish take of Malebar District, Madras, satuated in 12°3'N and 75°22'E. Population (1901), 7,849. It contains a sub-magnitude's and District Minusé's court, and a brass roofed temple which is one of the best in the District.

Tangasseri.—British village within the limits of the State of Travancore, attracted in 8° 54' N and 76° 35' E., adjoining Quilon. Until 1906 it was administered as part of the Cochin tähik of Malabar District, Madras, but in that year it was transferred to the newly formed District of Anjawoo, and placed under the administrative control of the Resident in Travancore and Cochin Total area, about 99 acres. Population (1901), 1,733. It was formerly a Portuguese and a Dutch settlement, and the inhabitants are mostly Roman Catholics. The collection of customs, port-dues, and other revenues in the place is farmed out to the Travancore Government. Civil

¹ Some English ships, under Captam Houner, vanted Pounitz (Pounitz 1619, and unsuccessfully attempted to purchase pepper from the Zamorra, who was then residing them. (W. Foster, The English Pactories in India, p. 71).

jurisdiction over it still belongs to the District Munsif's court at Anjengo, under the District Court of South Malabar. The place has a resident sub magistrate. A lighthouse stands on the sea shore with a light visible for r8 miles.

Tellicherry (Talacters) —Head quarters of the divisional officer and of the Kottayam talak of Malabar District, Madras, situated in 11° 45 N and 75° 29 E, on the coast, 42 miles north of Caheut, and 457 miles by rail from Madras City Bendes the divisional and talak offices, the town contains the District Court of North Malabar, a church, a second grade college founded by Mr Brennen in 1862, a branch of the Bank of Madras, Roman Catholic and German mission establishments and the old fort of the East India Company, now used for public offices

Tellicherry does not appear to have been of any importance before the end of the seventeenth century, when the East Indus Company established a factory there with the object of commanding the pepper trade of North Malabar. The site, which had previously been occupied by a French mud fort, was granted by the Kolattin Ram in 1683 or 1684 the REM was induced to build the Tellicherry fort, which he handed over to the Company for the protection of their factory, and during the first half of the eighteenth century the factors obtained from various Raus many small grants of land with administrative privileges within them. They also success sively secured the monopoly of the trade in pepper and cardamons in Kolattanad, kadattanad, and Kottayam. The factor, thus became the principal British trading station on the west coast. The growth of its importance is illustrated by a treaty dated 1737, by which the Kolattiri Raja agreed to be guided by the 'Sahib English Company' in all his transactions with European nations, and by an agreement dated 1741, in which the Randattura district was mortgaged to the Company, who thereby became directly concerned in its administration In the struggle with France, Tellicherry was the centre of the successful opposition offered to La Bourdonnais on the west ecast, but during the early Mysore Wars the Company's operations were narrowed, and in 1766 the factory was reduced to a rendency. In 1780 the town was beneged by Haidar's general Sardar Khan, but after a two years struggle the siege was eventually raised in 1782 by the arrival of relief from Bombay under Major Abington Tellscherry then became the base for the operations above the Ghitts, until it was superseded as a military post by Cannanore

At present Tellicherry ranks as the third port of Malabar The value of the imports in 1903-4 was 40 lakha, and of the exports 103 lakhs. It is the chief outlet for the peoper and coffee grown on the Ghata, but the traffic in both has declined during the decade, the value of the coffee exports having fallen from 66 lakhs in 1800-1 to 33 lakhs in 1900-1, and of the pepper from 29 lakhs to 25 lakhs. The trade in mindal wood and coco-nut products has, however, mereased. The imports consust chiefly of nee from Bengal and Burma, and coffee and pepper from neighbouring ports. The population of the town m 1901 was \$7,883 (15,252 Hindus, 10,958 Muhammadana, and r,67r Christians) The municipality was created in 1869. The income during the decade 1890-1900 averaged Rs 44,000, and the expenditure nearly Rs 45,000, of which 39 per cent was had out on education. The income and expenditure in 1903-4 were Rs 50,000 and Rs 51,000 respectively, the chief receipts being from the taxes on houses and lands and from school fees

Thrur—Village m the Ponnani tāluā of Malabar District, Madras, situated in 10° 53′ N and 75° 56′ E. Population (1901), 4,444. It is a railway station and an important point on the canals of the District. Not far off is the village of Betst Pudryangādi, which is the head quarters of a submagistrate and a District Munaif. Their courts were built from the materials of the palace of the Betstnäd Rājās de strojed by Tipu Sultān in 1784.

Turbrangadi.—Town m the Ernad table of Malabar Dutruct, Madras, attuated in 11° s' N and 75° 56 E. Population (1901), 5,400. It is the head-quarters of a deputy tabuldar and a sub magistrate, and has a weekly market. The place contains the tomb of Taramel Tangal, a noted Mappilla saint. In 1852 Saiyid Fazl, a descendant of the Tangal, was deported to Arabiz for instigating Mappillas to rebel. The trade is milest, coco nuts, and areca nuts.

Valarpatianam (or Bahapatam) — Village and river in the Chirakkal Allak of Malabar District Madras. The river is formed by two affinents rising in Coorg. namely, the Barapole and the Kalluhole. It is about 74 miles long, and is the most important in North Malabar, being navigable for a considerable distance. At its mouth, 3 miles below the village of Valarpatianam, where the great body of water discharged into the sea maintains a fairly deep channel over the bar, it is joined by the Tahiparamba river, which flows along the coast from the north, and is in its turn connected by the Sultan's Canal with

the backwaters of South Kanara. The village of Valarpattanam is situated on the left bank of the river, in rr° 55 N and 75° 22 K. Population (1901) 3,429. It possesses a thriving trade, chiefly in timber, which is floated down the river from the Ghats. The Madras Railway crosses the river at Azhikal, a little above the village.

Vayithm.—Village in the Wynaed takes of Malabar District, Madraa, situated in 11° 33' N and 76° 2 E Population (1901) 2,658. Since the decline of planting in the north of the takes, it has become a centre of the coffee and tea growing industry, and possesses a considerable European community. It contains a District Munsil's court and a sub-magistrate's court, a Roman Catholic chapel, and a Church of England place of worship. About a mile to the south west lies the Pukkote lake, a natural sheet of water in a valley among low hills.

SOUTH KANARA DISTRICT

Kanara, South.—The more northerly of the two Districts I on the west coast of the Madras Presidency, lying between fire 7' and 13° 59 N and 74° 34 and 75° 45 E, with an area of 4.021 square miles

The vernacular name Kannada ('the black country') really refers to the black soil of the Kanarese speaking country in the Southern Decean. I hough a historical mumomer as applied to the western seaboard, it yet marks its long subjection to the Kanarese princes who held swn; above the Western Ghats The District is bounded on the north by the Bombay Presidency on the east by Mysore and Coorg, on the south by Coorg and Malahar, and on the west by the Arabian Sea. The scarp or watershed of the Wifstern (JEATS forms a natural frontier on the east. Approaching in the extreme north within 6 miles of the sea, the main line of this range soon swerves abruptly castward round the Kollur Valley. Through this passes a road leading to the Honnar Magane, a small tract above the Ghāta belonging to South Kanara, but separated from it by Mysore territory. South of the valley rises the prominent sugar loaf peak of Kodachadn, 4 411 feet, and thence, a precipitous clifflike barrier with an average elevation of over 2,000 feet, the Gham 1m south-east to the KUDREMUKH, the highest peak in the District, 6,215 feet above sea level From this point they sweep east and south round the Uppman gadi talkit to join the broken ranges of the Coorg and Valabar hills on the southern boundary of the District. South of the Kudremukh then character entirely changes. To the north few passes or prominent heights break the clearly defined watershed. On the south, deep valleys pierce the main lime, flanked by massive heights such as Balkibkjandurga (4,940 feet) and Subrahmanya hill (5,626), while a profusion of forest clad spore and parallel ranges make the scenery as varied and picturesque as any m the Prendency West of the Ghata a broken laterite plateau alopes gradually towards the sea The general aspect of the Dartnet has been well described as a fixtness uniform but infinitely diversified. Much of the level surface is bare and treeless, and strewn with deputed granite boulders; but numerous miniature hill ranges, well wooded save where stripped for firewood near the coast, and bold isolated crags rising abruptly from the plain, prevent monetony.

Local tradition states that South Kanara was part of the reakn wrested by the mythic Param Rama from the sea, and modern geology seems to confirm the view that it is an ancient sea-bed. Water is at any rate the element to which the District owes its distinctive characteristics. The monsoons have furrowed innumerable valleys in the laterite downs, and fertilized them with rich soil washed down by the streams. Valley opens upon valley in picturesque and diversified similarity, all converging at last into the main valleys through which the larger rivers of the District run. Along the backwater which these rivers form at the coast are found large level stretches of fertile rice and garden land. From the sea, indeed, the coast-line presents an endless stretch of coco-nut palms, broken only by some river mouth or fort-crowned promontory where the main level of the plateau runs sheer into the sea.

The rivers of the District, though numerous, are of no great length. Raging torrents in the monacon, owing to the enormous volume of water they have to carry off, in the hot season they shrink to shallow channels in the centres of their beds. Rapid in their early course, they expand at the coast into shallow tidal laguous. In the extreme south a number of rivers rising in the Malabar and Coorg hills form a succession of backwaters giving water communication with Malahar. At KESSINGOO the CHAMDRAGIRS (Payaswani) flows into the sea past an old fort of the same name. The Netravati, with its affluent the Kumaradhari, and the Gurpur river, which have a common backwater and outlet at Mangalore, drain the greater part of the Mangalore and Uppinangadi Aibile. The Swarmanadi and the Stranadi drain most of the Udipl Milial and have a common outlet at the port of Hangarkatta. A picturesque and important backwater studded with fertile islands is formed to the north of Coondapoor town by a number of rivers draining much of the Coundapoor tithak.

The geology of South Kanara has not yet been worked out. It is probable that in the main it consists of Archaean gnesses of the older sub-groups, possibly with representatives of the upper thinner-bedded more varied schists (Mercara achists) and plutonic igneous rocks where the District touches Mysore and Coorg. Laterite and ordinary coastal alluvium are common in the low-lying parts.

As might be expected from the heavy minfull (145 inches),

the flora of the District is exceedingly varied. The forests are both evergreen and deciduous, and the more important timber trees are mentioned under Forests below. Of fruit trees the coco and areca palms and the jack and mango are the most important. There are, however, few good grafted mango trees, except in Mangalore town. The palmyra palm is found everywhere, and the cashew tree is very common, especially near the coast. The bamboo grows inxuriantly. Considerable stretches of sandy soil along the coast have been planted with the cashesma. The betal vine, yams of various kinds, and plantains are raised in gardens, and turmeric and chilles as occasional crops. Flowers of numberless kinds grow in profusion, and in the monsoon every hollow and wall sprouts with ferns and creepers.

The fauna is varied. Leopards are found wherever there is ! cover, and annually destroy large numbers of cattle. The tiger is less common. On the Ghatis bison (gaur) and sambar attract aportamen, and the black bear is also found, while elephants are fairly numerous in the extensive forests of the Uppmangach tälek. Deer and monkeys do connderable damage to cultivation adjoining the Ghats. The jackel is ubiquitous The handsome Malabar squirrel (Science indicar) is common in the forests, and flying foxes have established several flourishing colonies. Among rarer animals are the flying aquirral, lemur, porcupine, and pangohn. A great variety of makes exists, and the python and the hamadryad (Ophiophagus slaps) grow to an immense size. Crocodiles and otters are found in the larger streams. There is good fishing in the nvers, mahacer being numerous, but dynamiting, poisoning, and netting by the natives have done much to spoil it

The chimate is characterized by excessive humidity, and is (relaxing and debilitating to Europeans and people of sedentary habits. The average annual temperature at Mangalore is 81°. The heat is greatest in the inland parts of the District during the months of March, April, and May. Malarial fever is nie during the hot season and the breaks in the monsoon wherever there is thick jungle. From November to March a chilly land wind blows at night which, though it keeps the temperature low, is unhealthy and reputed especially dangerous to horses.

The annual ramfall averages 145 mches. It is smallest on I the coast line, ranging from 127 inches at Hoadrug in the south to 141 inches at Coondapoor in the north. The farther mland one goes the greater is the amount, Kärkala close to the Ghäts having an average of 189 inches. In 1897 the enormous

fall of 239 inches was recorded at this station. Of the total amount, more than 80 per cent is received during the four months from June to September in the south west mousoon. The rains may be said never to fail, and the District has only once known famine. Floods, however, are rare, as the rivers have usually cut themselves very deep channels.

Little is known of the early history of South Kanara. scriptions show that it was included in the kingdom of the Pallavas of Kanchi, the modern Conjecveram in Chingleput Distinct, whose earliest capital appears to have been Vatapa or Badami, in the Buapur Dustrict of Bombay. Its next rulers seem to have been the early Kadamba kings of Banavan, the Banaousir of the Greek geographer Ptolemy (second century A D), in North Kansara District About the sixth century they were overthrown by the early Chalukyas, who had established themselves at Badami, the old Pallava capital. In the middle of the eighth century these were expelled by the later Kadamba. king Mayumvarma, who is said to have introduced Brahmans for the first time into the District. His successors seem to have ruled the country as feudatones of the Rishtrakutas of Malkhed in the present Nizām's Dominions, and of the Western Chālukyas of Kalyani in the same State About the twelfth century the Dutrict was overrun by the Hoysala Ballalas of Dorasamudra, the modern Halebid in Mysore But there were frequent contents between them and the Yadayas of Deogra, the modern Daulatabad, in the Natam's Dominions, until in the fourteenth century they were both overthrown by the De³hi Muhammadana, practically securing the independence of the local chiefs. In the first half of the fourteenth century the District passed under the Hindu kings of Vijayanagar About this time Ibn Betüte, the Muhammadan traveller, passed through it and has left an interesting, though somewhat exaggerated, description of what he saw. During the next century the Portuguese made their first settlements on the west coast, and Vasco da Gama himself landed to 1408 on one of the relands off Udipi. After the battle of Talikota in 1565, in which the last Vijayanagar king was defeated by the united Muhammadans of the Deccan, the local Jain chiefs effected independence. But in the beginning of the next century almost all of them were subdued by the Linguisat ruler, Venkatappa Nask, of Ikken, now a village in the Shimoga District of Mysore During the next century and a half the Ikken chieftuna, who had meanwhile removed their capital to liednur, the present Nagar in Mysore, continued masters of the country, though most of the old Jam and Brahman chiefs seem to have retained local independence

British connexion with the District begins about 1737 when the factors at TELLICHERRY, taking advantage of a hostile move by the Bednur Raps, obtained commercial advan tages, including a monopoly of all pepper and cardamons in certain tracts. Haidar Ah, the Muhammadan usurper of the Mysore throne, after his conquest of Bednur in 1763 took Mangalore and made it the base of his naval operations. The place was captured by the English in 1768 but, on Haidars approach a few months later, was evacuated. On the outbreak of war with Haidar again in 1780, General Muthews, Commander in Chief of Bombay, landed opposite Coondapoor and took it. On his subsequent march north to Hednur he also took Hosangach and the Haidargarh fort. Bednur itself next fell, but the arrival of a large relieving force under lipu, Haidar's son, forced Mathews to capitulate Tipu then beneged Mangalore, which surrendered after a protracted struggle. During this war Tipu, suspecting that the native Christians of the District were secretly aiding the English, deported large numbers of them to Mysore and forcibly converted them to Islam During the final war with Lipu which ended in his death at the fall of Seringapatam in 1790, the District suffered severely from the depredations of the Coorgs By the Partition Treaty of the same year it fell to the Company To the country thus acquired was added in 1834, on the amnexation of Coorg, the portion of that province which had been ceded to the Coorg Raja m 1799 In 1862 the country north of the Coondapoor talks was transferred to the Presi dency of Bombay leaving the District as it now stands to the administration of Madres

The chief objects of archaeological interest in South kanara, are its Jain remains, which are among the most remulable in the Presidency. The most noteworthy are found at Karkala, Müdendri, and Yinün in a part of the District long ruled by Jain chiefs, of whom the most important were the Bhamarasa Wodeyars of Karkala. Under this family, which migrated from above the Ghāta, building in stone is supposed to have been introduced into this part of the west coast. Fer guision states that the architecture of the Jain temples has no resemblance to the Dravidian or other South Indian styles, but finds its nearest affinity in Vepal and Tibet. There is no doubt that it is largely a reproduction of the architectural forms in wood used in the country from early times. The remains

are of three kinds. The first are the father, or walled enclosures contaming colours statues. There is one of these statues at Kerkala and another at Yenur The former is the larger, being 41 feet 5 inches high, and is also the more striking, as it stands on the top of a rocky hill overlooking a picturesque They both have the traditional forms and lineaments of Buckha, but are named after Gomata Raya, a forgotten and perhaps mythical Jain king. They are monohthic, and the method of their construction, whether they were hewn out of some boulder which stood on their sites, or whether they were sculptured elsewhere and removed to their present positions, as a mystery. A still larger statue, also said to be of Gomata. Raya, at Srayana Belgola in Mysore is the only other example. known. An inscription on the Karkala statue states that it was erected in a D 1431. The second class of Jain remains are the harts or temples. These are found all over the Dutrict, the most famous group being at Mudbidri, where there are eighteen of them. With plain but dignified exteriors, clearly showing their adaptation from styles suited to work in wood, and greatly resembling the architecture common in Nepall in the reverse alone of the eaves above the versuda, nothing can exceed the nehness and variety with which the interior is carved. The largest basis at Mudbidin is three storeyed, resembling somewhat the pagodas of the Farther East, and contains about 1 000 pillars, those of the miterior being all carved in the most vaned and emberant manner. The last variety of Jain antiquities are the stambles or pillars. Though not peculiar to Jam architecture, the most graceful examples are found in connexion with the temples of that furth. The finest is at Haleangada near Karkala It is 50 feet from base to capital, the shaft being monolithic and 33 feet in length, and the whole gracefully proportioned and beautifully adorned Barkur, once the Jam capital of the region destroyed by Linguyat fanation in the seventeenth century, probably excelled the rest of the District in the number and beauty of its buildings, but is now a mere heap of rums

Serpent stones in groves and on platforms round the sacred fig trees are numerous, and bear witness to the tree and serpent worship imposed by the influence of Jamusia and Varshnavism on the primitive demon and ancestor worship of the country. The Hindu temples are as a rule mean and impretentions buildings, though many of them, such as that to Krishna at Uders and the shrines at Surrammanya, Kollur, Sankammariyana, and Koteshwar, are of great antiquity and

sanctity Forts are numerous, especially along the sea coast, but of little importance archaeologically. That at BEKAL is the largest, and was formerly a stronghold of the Bedrur kings.

South Kanara is divided into the five tables of Coondapoor, Kanaragod, Mangalore, Udips, and Uppinangach, and meludes also the Amindivi Islands in the Indian Ocean. The head quarters of the tables (except of Uppinangadi, which is at Puttur) are at the places from which they are respectively named. The headman of the Amindivis lives on the Amini island. Statistics of these areas, according to the Census of 1901, are appended.—

	8	Number of			Le	See 5	28" 5
Tabili	Area nope	1000	V Magne	Population	Population agreets #	Parcentage of var along a population a population between 1891 and 1991	Manufar Perdone
Coordapoor	619	abla	108	751 858	913	+ 02	7,748
Udipa	719	Ł	757	Ice int	340	+ 39	18 446
Mangalore	679	I	243	334 294	493	+105	11,013
Amuad vs Islands	3		4	3,608	1,103	_ s t	18
Uppa mogada	1 110		182	181 84s	147	+99	7 818
Kamraged	762		114	231 280	904	-100	13 067
Dastrict total	4 0 a t	•	803	1 134 713	#b2	+ 74	66,190

Much of South kanara is hill and forest—and the density of the population is accordingly little above the average for the Presidency as a whole, fertile and free from famine though the District is—In the Uppmangadi talks which her close under the Ghata, there are only 147 persons to the square mile—This is, however, on the main road to Mysore and Coorg, and the opportunities for trade thus afforded have caused the population here to increase faster than in the District as a whole

The population of South Kanara in 1871 was 918,362, in 1881, 959,514, in 1891, 1,056,081, and in 1901, 1,134,713. It will be seen that the growth, though steady, is not remark able. In the decade ending 1901 the rate of increase was about equal to the average for the Presidency, and during the last thirty years it has amounted to 24 per cent. There is considerable temporary emigration of labourers every year to the coffee estates of Coorg and Mysore, the total loss to the District in 1901 on the movement between it and these two areas being 14,000 and 40,000 persons respectively. On the other hand, South Lanara obtains very few immigrants from else where. In 1901 less than 2 persons in every 100 found within

it had been born outside. As in the case of Malaber, this is largely due to its geographical molation, and to the fact that the ways and customs of its people and its agricultural tenures differ much from those of neighbouring areas. The people are fonder of living in their own separate homesteads than in streets, and the District consequently has a smaller tirbun population than any other except Kurnool and the Nilgins, and includes only two towns. These are the municipality of Mangalore, the District head quarters (population, 44,108), and the town of Uniti (8,041). Both are growing places. There are few villages of the kind usual on the east coast, the people living in scattered habitations.

Of the total population in 1901 Hindus numbered 914,163, or 81 per cent, Musalmans, 126,853, or 11 per cent, Christians, 84,103, or 7 per cent, Jams, 9,582, or 1 per cent. Musalmans are proportionately more numerous than in any Districts except Malabar, Madria City, and Kurnool, and most of them are Mappillas, who are described in the article on Malabar. Excluding the exceptional cases of Madria City and the Nilgins, Christians form a higher percentage of the people than in any District except Timnevelly. They have increased at the rate of 45 per cent during the last twenty years. Jams are more numerous than in any other District of Madrias.

South Kanara is a polyglot District. Tulu, Malayalam, Kanarese, and Konkam are all largely spoken, being the vernaculars respectively of 44, 19, 19, and 13 per cent. of the population. Tulu is the language of the centre of the District, and is used more than any other tongue in the Mangalore, Udipi, and Uppinangadi Malabr, but in Mangalore a fifth of the people speak Konkam, a dialect of Marathi, and in Udipi nearly a fourth speak Kanarese. In the Amindity Islands and in Kasaragod, which latter adjoins Malabar, Malayalam is the prevailing vernacular. Most of those who are literate are literate in Kanarese. It is the official language of the District, and its rival, Tulu, has no written character, though it has occasionally been printed in Kanarese type.

The District contains proportionately more Brahmana than any other in Madras, the caste numbering 110,000, or 12 per cent of the Hindu population. The Hindus are made up of many elements, and the castes are in need of more careful study than they have yet received. They include 16,000 Telingus (9,000 of whom are Devanga or Sale weavers), 82,000 members of Malayalam castes (most of whom are found in the Kasaragod tilinal), 140,000 people of Marathi or Konkani-

speaking communities, and 672,000 who talk Kanarese or Tulu. The three largest castes in the District are the Billavas (143,000), the Bants (118,000), and the Holeyas (118,000). The first two of these hardly occur elsewhere. They are respectively the toddy drawers and the landholders of the community. The Holeyas are nearly all agricultural labourers by occupation.

Kacept the three Agencies in the north of the Presidency and South Arcot, South Kanara is more exclusively agricultural than any other District. As many as three quarters of its people live by the land. Toddy-drawers are also proportion ately more numerous than usual, though it must be remembered that many toddy drawers by caste are agriculturate or field labourers by occupation, while weavers and leather workers form a smaller percentage of the people than is normally the case.

Out of the 84,103 Christians in the District in 1901, 83,779 (were natives, more than 76,000 being Roman Catholics I radi 1 tion avers that St. Thomas the Apostle visited the west court in the first century. The present Roman Catholic community dates from the conquest of Mangalore by the Portuguese in 1526 Refugees from the Goanese territory driven out by Martitha incursions, and settlers encouraged by the Bednür kings, swelled the results of local conversion, so that by Tipu's time the native Christian community was estimated at 80,000 souls But after the wege of Mangalore in 1784 Tipu deported great numbers of them, estimated at from 30 000 to 60,000, to Seringapatam, seized their property, and destroyed their churches. Many of them perished on the road and others were forcibly converted. On the fall of Seringapatam the survivous returned, and the community was soon again in a prosperous condition. The jurisdiction of Gos continued until 1827, when part of the community placed themselves under the Carmehte Vicar Apostolic of Verapoli in Travancore After further vacuatudes the Jesuits took the place of the Carmehites in 1878. Mangalore is now the seat of a bishopric

The only Protestant musion is the German Evangelical Musion of Basel, established at Mangalore in 1834. Its converts now number 5,913, mainly drawn from the poorest classes of the people, who find employment in the various industrial enterprises of the massion.

The agricultural methods of South Kanara are conditioned (by its chimate and geological peculiarities. As already men tioned, the District is a latente plateau on a gramte bed, a

bounded by the Ghats, and worn and furrowed into countless valleys by the action of the monsoons. Much of the level plateau above the valleys produces nothing but thatching-grass or stunted scrub, but the numerous hollows are the scene of nch and varied cultivation, and the slopes above the fields are well wooded more where denuded to supply the fuel markets of Mangalore and other large towns

The soil is as a rule a laterate loam, which is especially rich in the lower stretches of the valleys, where the best rice land is found. Large stretches of level ground occur along the coast, where the soil is generally of a sandy character but contains much fertilizing alluvial matter. To the north of the Chandragui river this land grows excellent rice crops and bears a very heavy rent. South of that stream the soil is thinner and suited only to the commoner kinds of rice, but tobacco and vegetables are grown in considerable quantities, especially by the Mappillas.

Every valley has one or more water channels running through its centre or down either inde. The best rice fields he as a rule on a level with these channels, which feed them during the whole of the first crop season by small openings in their embankments that can be shut or opened as needed. After the first crop of nice has been harvested, dams are thrown across these channels at intervals, and by this means the level of the water is maintained, and a second, and even a third, crop of noe can be grown by direct flow from the channel, water being let into the plots as required. Very often a permanent dam as maintained above the cultivation to divert part of the water down the side channels. In the land immediately above these side channels a second crop of rice is grown by baling either with susttake or, when the level admits, by band-scoops (kesdambs) suspended from a cross bar, or by a basket swong with ropes by two men. These lands are locally termed mayel. Still higher up the slopes of the valley are other rice fields, known as betts, cut laboriously in terraces out of the hill-sides. These give only one crop of rice and, except where fed by some small jungle stream, are entirely dependent on the rainfall, consequently their cultivation is somewhat precamous. The areca gardens are mostly saturated in the sheltered nooks of the valleys in the more billy parts of the District and in the recesses of the lower spins and offshoots of the Ghats, where the two essentials of shade and a perennial water supply occur in combination. The finest coco nut gardens are found in the sandy level stretches

adjoining the coast, especially along the fringes of the numerous backwaters.

A considerable quantity of black gram, horse gram, and green gram is grown on the level land near the coast as a second crop, and on mayal lands obsewhere if sufficient mosture is available. Sugar cane is grown here and there bende the backwaters. Pepper has never recovered from the measures taken by Tipū to suppress its cultivation, In the south of the Käsaragod killuk, kanner, or shifting cultivation, is still carried on in the jungles.

The District is ementially ryothers, such factor as exist being merely assignments of land revenue. Statistics of the various takels for 1903-4 are appended, areas being in square miles —

Talanh.	Arca shows its accounts	Porests	Caltrable wests.	Coltreted	
Coorcapoor	619	241	3b	133	
Ծանգու ,	7T9	139	60	134	
Mangalore	679	60	1 199	194	
Lepromegade	1 1 2 2 9	847	91	162	
Klauraged	763	63	61	877	
Dustract total	4,018	1,070	169	990	

More than a fourth of the District consists of forest, nearly one half is hilly and rocky land not available for cultivation, and the area actually cropped is less than a fifth of the total. Rice is by far the most important staple, the area under it (counting twice over that cropped twice) being 760 square miles. The garden area, 8s square miles, consists almost entirely of coco-nut and areca-nut plantations. These three crops practically monopolise the cultivation

For agricultural purposes the ryots divide the year into three seasons, to correspond with the times of the three rice crops. These are Kārtiks or Year! (May-October), Sagge (October-January), and Kakkie (January-April). It is doubtful if any District in the Presidency shows such a round of orderly and careful cultivation, and the increased out-turn from any theoretical improvements that might be made would probably be more than counterbalanced by the enhanced cost of cultivation. The choice and rotation of crops, the properties of various soils, the selection of seed and of seed-beds, the number of ploughings, the amount of manure, the distribution of water,

the regulation of all these and the countless other details of high farming, if based on no book knowledge, have been minutely adapted by centuries of experience and tradition to every variety of holding

In the sungles which almost everywhere adjoin the cultivation the root finds an unfailing supply of manure for his fields, of timber for his agricultural implements, which he fashions at little expense to himself and of fuel for domestic use sequently he has availed houself but little of the Land Improve ments Loans Act Under the name of humah, holders of hadim wares, or holdings formed before 1866, emoy these privileges to the exclusion of others within 100 yards of the cultivation. No figures are available to show the extension of tillage. The absence of a survey, the committence of the village and subordinate revenue officials, and the nature of the country have made encroachments particularly easy, and land has been formally applied for only where the prior right to it has been disputed or to serve as a nucleus for future encroachment. Cultivation has increased steadily everywhere except rannediately under the Ghuis where the museues and depopulation caused by the disturbances of the eighteenth century threw out of cultivation large tracts which have never recovered, owing to the prevalence of malana and the demand for labour elses bere-

The chief drawback to agriculture in South Kanara is the want of a good indigenous breed of cattle. All the best draught and plough cattle have to be imported from Mysore, and even where well tended they are apt to deteriorate. The ordinary village cattle owing to exposure to the heavy rains, indiscriminate breeding had housing, and a régime of six months' plenty and six months want, are innerably understood and weakly. The climate is equally unfavourable to sheep and horses the number of which is small and kept up only by importation. A fair is held annually at Subrahmanya, to which about 50,000 head of cattle are brought from Mysore to meet local regimements.

The beavy rainfall and the rapid nature of the rivers do not admit of large irrigation reservoirs or permanent dama being formed, and as a result there are no Government irrigation works in the District. But the ryots have themselves most skilfully utilized the springs and streams by countless channels, feeders, and temporary dams. Along the coast, cultivation is largely assisted by shallow pends accopsed at lattle expense out of the sandy soil, and faither inland reservoirs of a more sub-

stantial nature are sometimes constructed at the valley heads. Many arecs gardens are so supplied

South Kanara is essentially a forest District. With the F exception of the bare laterite plateaux and downs of the Kasa raged and Mangalore tähuls and the spots where the hills near the coast have been stripped of their growth for timber, fuel, and manure, the country is everywhere richly wooded The whole line of the Ghāts with their spurs and offshoots present an almost unbroken stretch of virgin forest, which finds its richest and most himmant development in the recesses of the Uppmangadi takek, where the most important and largest Reserves are found. The total forest area in the District is 662 square miles, and 408 square miles of reserved land are also controlled by the Forest department. In the early years of the Company a administration the claims of Government to the forests and their prospective importance were alike over looked, but the rights of the Crown began to be asserted from the year 1839 onwards, and during the last thirty years Reserves have been selected and a system of conservation introduced

The destructive system of shifting cultivation locally known as *known* has been prohibited since 1860, except in a few small tracts where it is strictly regulated. Such regulation is a matter of the greatest importance to a District with an annual rainfall averaging over 140 inches, the seasonable distribution of which depends largely on the proper protection of its catchment area.

The most valuable timber trees are teak, poonspar (Cale-phyllum slatum), blackwood (Dalbergia latifolia), jack (Arte-carpus integrifolia) and wild jack (A hirsata) venick (Lager streemia microcarpa), hiralbhog (Hopea parcifora), banapu (Terminalia tomentosa), and marca (T paniculata). But development must still be said to be in its infancy. In fact, the chief revenue is at present derived from items of minor produce, such as catechi grazing fees, &c. The main obstacle is the want of good communications, but once this is over come, whether by a system of light railways or otherwise, the South Kanara forests should be of the greatest value.

A fine clay excellently adapted for pottery is found in various: localities, especially along the banks of the Netravati, which supplies material for the Mangalore tile works mentioned below Gold and garnets are known to occur in one or two places, but the mineral resources of the District are as yet practically unexplored. The ordinary laterate rock, which is easily cut and hardens on exposure, forms the common building material.

The only large manufactures in South Kanara are the results of European enterprise. Tile-making was introduced by the Basel Mission, and this body has now two factories at Manga. lore and another at Malpe near Udipi. At Mangalore one other European firm, Messrs Morgan & Sons, and nine native merchants are engaged in the industry, and elsewhere in the Dustrict are two more native factories. The industry employs about 1,000 hands. The Basel Musion has also a large weav ing establishment at Mangalore, and some of its employes have started small concerns elsewhere, but otherwise the weaving of the District is of the ordinary kind. The same may be said. with reference to the work of the goldsmiths, blacksmiths, and Four European and three native firms are other artisans engaged in coffee curing. In 1903-4 coffee from above the Ghitts to the value of 41 lakhs was exported. Corr yarn is manufactured in considerable quantities in the Amindivi Islands, where it forms a Government monopoly, and along the coast. On the coast, too, a considerable industry exists in fish curing, which is done with duty free salt in fourteen Government curing yards. Most of the product is exported to Colombo, but large quantities are also sent inland. Sandal od is distilled in the Udipi takki from sandal wood brought down from Mysore

The prescript articles of export are coffee, tiles, coco-nut kernels (copra), rice, salted fish, spices, and wood. The tiles are exported to Bombay and to ports in the Prendency The coffee is brought from Mysore and Coorg to be cured, and is exported chiefly to the United Kingdom and France. The coco-nut hemels go chiefly to Bombey, rice to Malabar and Gos, and salted fish to Colombo Large quantities of areca muts are shapped to Bombay and Kathawar. The wood exported as chiefly sandal brought from Mysore and Coorg. The chief imports are cotton more goods, grain, liquor, oil, copm, pulses, spaces, sugar, salt, and salted fish, largely to meet local needs, but partly for re-export to Mysore and Coorg bulk of the trade is carried on at Mangalore (the commerce of which is referred to in the separate article upon the place), and Malpe, Hanglirketta, and Gangoli are the most important of the outports. The most promment by far of the mercantile castes are the Mappallas, who are followed by Telagu traders. such as the Bahylis and the Chetta. Konkam Brithmans, native Christians, and Räjäpurs also take a share. There are twenty weekly markets in the District under the control of the local boards

The District has at present no railways, but the Ashikal F Mangalore extension of the Madras Railway, now under a construction, will afford communication with Malabar and the rest of the Presidency. Its construction is estimated to cost too lakhs for a length of 78 miles. A line from Arakere on the Southern Mahratta Railway to Mangalore has also been projected and surveyed.

The total length of metalled roads is 148 miles and of immetalled roads 833 miles, all of which are maintained from Local funds Avenues of trees have been planted along 467 miles. The main lines are the coast road from Kavos to Shirtir, the roads leading to Mercifra through the Sampan ghat from Kasaragod and Mangalore, and those from Mangalore through the Charmadi ghit to Mudugere tehak, and through Karkala and the Agumbe ghat to the Loppa takeh in Mysore Lines running through the Kollur Hosangadi, Shiriidi, and Bhale ghatr also afford access to Mysore, and the main routes are fed by numerous cross roads. The tidal reaches of the rivers and the numerous backwaters furnish a cheap means of internal communication along the coast. In the monacon communication by sea is entirely closed, but during the fair season, from the middle of September to the middle of May, steamers of the Bombay Steam Navagation Company call twice weekly at Mangalore and other ports in the District Vanga. lore is also a port of call for steamers of the British India Company and other lines Large numbers of coasting craft corry on a breek trade

Owing to the abundant monsoons the District always pro : dinces more grain than is sufficient for its requirement. It is practically exempt from famine, and no relief has ever been needed except in the year 1812

For administrative purposes South Kanara is divided into: three subdivisions. Coordapoor, comprising the Coordapoor and Udipa takehr, is usually in charge of a Covenanted Creihan: Mangalore, corresponding to the tāliek of the same name (but including also the Amindixi Islands), and Puttur, comprising the Uppmangadi and Kasaragod takehr, are under Deputy Collectors recruited in India. A takehlar and a stationary sub magnitrate are posted at the head quarters of each tāliek, and deputy taknidars at Kārkala, Bantvāl, Beltangadi, and Hoedrug, besides a sub-magnitrate for Mangalore town

Civil justice is administered by a District Judge and a Subordinate Judge at Mangalore, and by District Munsifs at Mangalore, Kasaragod, Udipi, Coondapoor, Puttur, and Karkala. The Court of Session hears the more important criminal cases, but serious crime is not more than usually common, and there are no professional criminal tribes in the District Offences under the Abkan, Salt, and Forest Acts are numerous, and civil disputes are frequently made the ground of criminal charges, especially in connection with land and inheritance, the majority of the Hindu castes in the District being governed by the Alva Santana law of inheritance, under which a man's hears are not his own but his saster's sons.

Little is known of the early revenue history of the District Tradition gives one-sixth of the gross produce, estimated at first in unhusked and latterly in busked rice, as the share demanded by the government prior to the ascendancy of Vigiganagar About 1336 in the time of Harihara, the first of the kings of that live, the land revenue system was revised. One half of the gross produce was apportioned to the cultivator, one quarter to the landlord, one such to the government, and one twelfth to the gods and to Brithmans. This arrangement thinly disguised an addition of 50 per cent to the land revenue and the assumed share of the gods and Brahmans, being collected by the government was entirely at its disposal. In 1618 the Ikken Ragis of Bednur imposed an additional assessment of 50 per cent on all the District except the Mangalore kobh, and at a later date imposed a tax on fruit trees. These additions were permanently added to the standard revenue additions were made from time to time, amounting in 1762 when Haider conquered Kanara, to a further 25 per cont of the standard revenue, but still not sufficient to affect seriously the prosperity of the District Harder cancelled the deductions previously allowed on waste lands and imposed other additions, so that at his death the extras exceeded the standard revenue The further exactions and oppressions of Tipu were such that much land went out of cultivation, collections showed deficiencies ranging from 10 to 60 per cent, and the District was so impovershed that little land had any valeable value.

Major (afterwards Sir Thomas) Munro, the first Collector of the District, setting aside all merely nominal imposts and ameriments on waste lands, imposed on Kanara and Sonda (the present Districts of North and South Kanara) a new settlement in 1799-1800. Some slight reductions were made in the following year. It worked smoothly for some time, then difficulty in the collections and signs of deterioration owing to over-assessment induced the Board of Revenue to order a revision, based on the average collections from each estate since the province came under the British Government. assessment, introduced in 1819-20, was till recently in force in South Kanara, with the exception of a portion of the Uppenangada tahuk which was subsequently taken over from Coorg Continued difficulty in realizing the demand, owing to low prices and riotous assemblages of the cultivators, who refused to pay their assessment, led to a Member of the Board of Revenue being deputed in 1831 to inquire into the state of the District He reported that the disturbances were due to official intrigues, that the assessment was on the whole moderate, though low prices had caused some distress, and that where over assessment existed it was due entirely to the imequal incidence of the settlement, aggravated by the frauds of the village accountants, who had complete control over the public records. In accordance with his views, some relief was granted in the settlement for 1823-4 to those estates which were over The Board did not, however, regard these measures as satisfactory. Further correspondence confirmed the view that any attempt to base a redistribution of the assessment on the accounts then available was doomed to failure owing to their fallacious nature The Board therefore expressed the opinion that the only remedy was a settlement based on a correct survey. This proposal involved a consideration of the question. whether any pledge had been given for the fixity of the settle After further correspondence between the ment of 1810 20 Collectors, the Board, and the Government, the question was dropped in 1851, the improvement in prices having meanwhile reheved the pressure of assessment on particular estates

In 1880 the matter was again raised by the Government of Indus, in connexion with the general revision of settlements in the Presidency, and it was finally determined that the Government was m no way pledged to maintain the assessment unaltered, and that the survey and revision of settlement should be extended to Kanara in due course. A survey was begun in 1880 and settlement operations in October, 1894 A scheme was sanctioned for all the takks and has now (1906) been brought into operation. Under this the average assemment on 'dry' land is R o-9-7 per acre (maximum, Rs s, minimum, a annea), on 'wet' hand Re 4-7-11 (maximum, Ry 10, including charge for second crop, minimum, 12 annea), and on garden land Rs 4-13-7 (maximum, Rs 8, minimum, Rs 2) The proposals anticipate an ultimate increase in the assessment of the Dustract of Rs 9,22,000, or 65 per cent, over the former revenue. The revenue from land and the total revenue in recent years are given below, in thousands of rapees ---

	1 880 -E	såg o−z	3900- 1	2 904-4 -
Land revenue Total revenue	13,58	14,69	18,46	17,06
	17 go	14,63	15,41	17,7 6

Outside the municipality of Mangalore, local affairs are managed by the District board and the three satist boards of Coondapoor, Mangalore, and Puttin, the areas in charge of which correspond with the subdivisions of the same names. Their total expenditure in 1903-4 was Rs. 2 85,000, of which Rs. 1,57,000 was laid out on roads and buildings. The chief source of moome is, so usual, the land cess. South kanara contains none of the Unions which on the east coast control the affairs of many of the smaller towns.

The police are in charge of a District Superintendent, whose head-quarters are at Mangalore. The force numbers 10 in spectors and 558 constables, and there are 50 police stations. Village police do not exist.

There is a District juil at Mangalore, and 8 subsidiary just at the head quarters of the *taksildars* and their deputies have accommodation for 85 males and 35 females.

At the Census of 1901 South Kanara stood eleventh among the Districts of the Presidency in the literacy of its population, 5 8 per cent (11 1 males and 0-9 females) being able to read and write. Education is most advanced in the Mangalore talket, and most backward in the hilly mland think of Uppmangadi. In 1880-1 the number of pupils of both sexes under instruction in the Dutrict numbered 6,178, in 1890-1, 18,688, in 1900-1, 24,311, and m 1903-4, 27,684 On March 31, 1904, the number of educational institutions of all kinds in the District was 658, of which 502 were classed as public and 1 c6 as private The public institutions included 474 primary, 23 secondary, and 3 special schools, and a colleges. The girls in all of these numbered 4, 107, besides 1,566 under matriction in elementary private schools. Six of the public institutions were managed by the Educational department, 85 by local boards, and seven by the Mangalore municipality, while 278 were aided from public funds, and 126 were unsaded but conformed to the rules of the department. Of the male population of school-going age in 1903-4, 21 per cent. were in the primary stage of instruction, and of the female population of the same age 4 per cent. Among Mussimins the corresponding percentages were to

and 6 respectively. Education, especially that of girls, is most advanced in the Christian community. Two schools provide for the education of Panchamas, or depressed castes, and are attended by 37 pupils. The two Art colleges are the St Aloysius College, a first grade aided institution, and the second grade Government College, both at Mansalore. The former was established in 1880 by the Jesuit Fathers. The total expenditure on education in 1903-4 was Rs 2,22,000, of which Rs 77,000, or 35 per cent, was derived from fees, and 53 per cent of the total was devoted to primary education.

The District possesses 8 hospitals and 11 dispensaries, with 1 accommodation for 75 in patients. In 1903 the number of cases treated was 135,000, including 1,600 in patients, and 3,200 operations were performed. The expenditure was Rs 38,000, which was mostly met from Local and municipal funds.

In 1903-4 the number of persons successfully vaccinated was 28 000, or 23 per mille of the population. Vaccination is compulsory only in the Mangalore municipality.

[] Sturrock and H A Stuart, District Manual, 1894]

Coordapoor Subdivision (Kilminjur) —Subdivision of South Kanara District, Madres, consisting of the Coondapoor and Unite tabular

Coordepoor Taluk -Northernmost taluk of South Kanara District, Madras, lying between 13° 29 and 13° 59' N and 74° 34 and 75° 4 E, with an area of 619 square miles population in 1901 was 131,858, compared with 131,546 m 1891 It contains 103 villages, including COOYDAPOOR (population, 3,984) the head quarters. The demand for land revenue and cesses amounted in 1903-4 to Rs 3,12,000. The Western Ghits form the boundary of the taluk on the east, approaching in the north to within 6 miles of the sea. Three rivers rising in this range drain the greater part, and flow into a common estuary to the north of Coondapoor village. These tiver valleys, the islands in the estuary, and the adjacent low lying levels are singularly fertile, as is the alluvial plain along the coast, which in places extends 4 or 5 miles mland. Fine crops of rice and sugar-cane are grown, and the coco-nut plantations are very productive. The interior and hilly por tions of the talks contain much thick jungle, malarial favor is rife and labour scanty, and the ryots are much less presperous then on the coast. In the north of the tabul the catechutree is common, and the manufacture of cutch carried on by the Kudubi caste is an important item of forest revenue.

Udipl Taluk.— Taket in South Kanara District, Madras, lying between 13° 7' and 13° 38' N. and 74° 42' and 75° 9' E., with an area of 719 square miles. It contains one town, Uniti (population, 8,041), the head quarters, and 157 villages. The population in 1901 was 251,831, compared with 242,439 in 1891, showing an increase of 3.9 per cent. The demand for land revenue and cesses amounted in 1903-4 to Rs 4,41,000. Rice and coco-nuts are the principal products, as in the rest of the District. There are some fine arecz gardens in the vicinity of the Western Ghāts on its eastern boundary. The taket as a whole is exceedingly prosperous, the coast tract being exceptionally fertile. Coco-nut gardens fringing the backwaters and tidal reaches of the rivers are a feature of the country.

Mangalore Subdivision (Mangalure).—Subdivision of South Kanara District, Madma, consisting of the Mangalors Mlok and the Amends I Islands.

Manusalore Talink.—Talink in the centre of South Kanara District, Madras, lying between 12° 48' and 13° 13' N and 74° 47' and 75° 17' E, with an area of 679 square miles. It contains one municipality, Margalore (population, 44,108), the head-quarters, and s43 villages. The demand for land revenue and cesses amounted in 1903-4 to Rs 5,88,000 The population was 334,294 in 1901, compared with 302,684 in 1891, showing an increase of 10-5 per cent. The density is high along the coast and in the fertile valleys of the Netravati and Gurpür rivers, and averages 402 persons per square mile for the titled as a whole. The finest coco nut gardens are, as usual, found along the backwaters, where also a considerable amount of sugar-came is grown. The best areca gardens occur inland and near the Western Ghäts. Rice is the principal crop. Round Mangalore, near Bayne and elsewhere, consider able quantities of 'dry' grains, chillies, turmenc, vegetables, and flowers are grown, chiefly by the native Christians. The laterite plateaux in this takes are very extensive, notably that round MUDBIDEL, and many of the hills round Mangalore have been stripped bare to supply the local market for firewood; but its deep valleys and outstanding bluffs and crags, with the ever-present towering background of the Ghitts, render sta scenery unsurpassed.

Amindivi Islands.—These relands form the northern group of the Laccadives, and are attached to South Kanara District, Madras Presidency. There are five of them, four (with a total area of 5 square miles) being mhabited, and a number of isolated recis. They lie at a distance of from 170 to 200 miles

from the mamland. Each is situated on a coral shoal with a lagoon on the west, and they nowhere rise to more than 10 or 15 feet above sea level. The foundation of the soil is a stratum of coral from 1 to 1½ feet thick, beneath which loose wet sand is found. All the wells are formed by breaking through this crust and removing the sand undernessit. The upper soil is loose coral sand.

For more than two centuries these islands belonged to the principality of CANNALORE, but in 1786 the people revolted and transferred their allegiance to Mysore. When South Kanara was taken over by the Company in 1799, the islands were attached to that District, and a remission of Rs. 5 250 was conceded in compensation to the Bibs of Cannanore. They are now under the immediate charge of a headman (monegar), who is a third class magistrate. He also adjudicates upon civil disputes, and his power to deal with offences against custom covers a wide field. He resides in the island of Amuni and is assisted by heritaris or accountants, mādpālis or watchmen, and here:

Family headmen also assist him in civil cases sitting as a panchējar. The population in 1901 was 3,608, or the same as it had been in 1844. In 1891 it was 3.722. Cholera epidemics are largely responsible for this stationary condition.

The people are all Musalmans, but of Hindu descent, and their own traditions and their language, a corrupt Malayalam, point to their having come from Malabar. They largely follow the Malabar Marumakkaitnyam law of descent. There is no seclusion of women, and monogamy as universal. The men as a rule are of fine physique, but eye diseases and rheumatism are common. The people are simple, peaceable, and contented, and senious crime in almost unknown. They only leave the islands to take corr over to the mainland, and to bring back the annual supplies of rice, salt, and other commodities. What education is sought is confined to learning the Koran by rote, the attempts of Government to impart elementary instruction to the island youths in Malayalam on modern lines have so far failed.

Almost the sole cultivation is that of the coco-nut palm, and the preparation of coco fibre or coir is the chief industry. Most of it is prepared by the women. Coir is a Government monopoly and the only source of revenue. Government buys all of it at fixed rates and sells it in the open market. As the cost is partly paid for in nice at a fixed rate, the value of the revenue naturally fluctuates according to the market price of both articles. The accounts for 1903-4 showed a net revenue.

of Rs. 2,387, but in this the perhibert pand to the Ripl of Cannanore (Rs 5,250) is not taken into account.

Puttur Subdivision.—Subdivision of South Kanara District, Madras, consisting of the Uppirsangani and Kanara Good transfer.

Uppinengadi.—The only inland talks in South Kanara. District, Madras, lying between 12° 27' and 13° 11' N and 75° of and 75° 45 K, with an area of 1,230 square inles. The population in 1901 was 181,842, compared with 165,427 m 1891, showing an increase of 9-9 per cent. Purrou (population, 3 999), the head-quarters, is also the chief place in the subdivision of that name. The number of villages as 182 The demand for land revenue and cesses amounted in 1903-4 to Rs 2 31,000. The tältek is bounded on the Mysore and Coorg frontiers by the Western Chats, the spurs and parallel ranges of which occupy a large portion of it, and much is under forest. The population, which mainly speaks Tulu, w consequently much scantier than in the rest of the District, numbering only 147 persons per square mile, compared with the District average of \$82. Good teak and other timber trees are found, but the want of communications has greatly interfered with the working of the forests. Cardamonis are grown to some extent, the largest private cardamora rangle being at Nerrya. There is much fertile land round Puttir and in the river valleys, but a considerable extent of land is uncultivated close under the Chāts Malarial fever, which is very rife in the interior at certain seasons of the year, deters settlers, and much labour is annually attracted by the coffee estates of Mysore and Coorg The chief crop is rice, as in the rest of the District, and there are also some fine areca gardens, those m the neighbourhood of Vittal being exceptionally valuable The coco-nut palm, however, does not thrive nearly so well as on the coust. The Kudarwork and Surrahmanya hills are the most prominent points of the Western Childs on the eastern boundary

Kinaraged Tillnk.—Southernmost tillnis of South Kanara Instrict, Madraa, lying between 12° 7' and 12° 57' N and 74° 52' and 75° 26' E, with an area of 762 square miles. It contains 114 villages. The demand for land revenue and cesses amounted in 1903-4 to Rs. 2,42,000. The population in 1901 was 231,280, compared with 210,323 m 1891, showing an increase of 10 per cent. Much of the surface consists of a hare trocless plateau, but the valleys are deep, well-watered, and very fertile, and, especially in the northern half of the tillnis, admirably adapted for areas cultivation. The chief

products are rice, coco-nuts, and areca nuts. In the coast villages in the south a considerable amount of tobacco is raised by the Mappalla cultivators. In eighteen survey villages adjoining Coorg and Malahar the shifting system of cultivation known as hower is still carried on, the crop being usually a mixed one of hill rice, pulse, and cotton. The jungle on selected spaces on the hill alopes is cut down, usually in December, and burned when dry three or four months later. The seed is sown in the ashes, sometimes without ploughing, when the rains come, and in good years fine crops are secured with little further trouble. A catch-crop is sometimes raised the following season, and the spot is then abundaned for a period of from seven to ten years till there is sufficient fresh growth, when the process is repeated.

Barkur,-Village in the Udipi talish of South Kanara District, Madras, attested in 13° s9' N and 74° 48 F. The traditional capital of Tuluva, the country of the Lulu speaking people, it was long the local seat of the representatives of the Househ Ballalas of Dorasamudra, who were James by religion The local rulers attained practical independence during the twelfth and thirteenth centuries the most powerful of them being named Bhutal Pandya (ares AD 1250), confounded by some with the Bhitigi Pandya to whom is ascribed the Aliya Santāna law of inheritance peculiar to the west coast. the origin of which is really much earlier. When the Vijava. negar langdom was founded in 1336, Harihara, its first ruler, stationed a viceroy called the Ravaru here and built a fort, remains of which are still to be seen. On the fall of Visional nagar the Bednür kings asserted their authority, and m the ensuing struggle the Jams were almost extripated and Barkur was destroyed. Rumed tanks and Jam shrines and sculptures still abound, but its importance has vanished and not one Jain house remains.

Baseur (the Barcelore or Barkalur of early geographers) — Village in the Coondapoor tātuk of South Kanara District, Madras, situated in 13° 38 N and 74° 45′ E, 4 miles east of Coondapoor. It was once a large walled town with a first and a temple, and carried on an important trade with Malabar and the Persian Gulf, but its decline set in after the catablishment of the Portuguese at Coondapoor in the eighteenth century, and it is now an imaginficant place. The runs of Sir Thomas Munro's courthouse are still pointed out. As Major Munro he was the first Collector of the District. Population (1901), 1,757.

Bekal.—Village in the Kämragod takin of South Kanara District, Madras, intuated in 12° 24′ N and 75° 3′ E. It has a fine fort on a headland facing the sea, which was built by Sivappa Naik of Bednür about the middle of the seventeenth century. The defences are said to abow traces of European science. The surrounding tract is really part of the Malayalam country, and was at one time subject to the Chirakkal Rājās Bekal formerly gave its name to the present Kānaragod tālarā, but it is now of no importance.

Chandragiri (or Paparana)—River in South Kanara District, Madras. It rues in the Western Ghitis on the Coorg frontier, in 12° 27' N. and 75° 40' E., and flows nearly due west across the District, extering the sea at Käsaragod. Its total length is about 60 miles, and it is navigable for twelve miles from its mouth by small boats. A large fost of the same name, picture-squely situated on the southern bank and attributed to Sivappa Naik of Bednür, commands the mouth of the river. The stream forms the boundary between the true Malaytham country on the south and the ancient Tuhiva, and according to trachtional custom no Näyar woman may cross it.

Coordapoor Village.—Head-quarters of the tāluk of the same name in South Kanara District, Madras, situated in 13° 38' N. and 74° 42' R., to the south of a large entury into which three rivers run. Population (1901), 3,984. It was a port under the Bednitr kings, and in the auteenth century the Portuguese settled here and built a fort. On a strong redoubt erected by Haidar now stand the office and residence of the divisional officer. Trade is at present principally carried on from Gangoh, which has on the north bank of the estuary and is more favourably situated for shipping. On the sand-spit to the west of the town has a small fresh-water reservoir containing a variety of fish locally known as the 'flower fish,' which run up to three feet in length and were especially reserved for Trpit's table during Mysore rule.

Houngadi.—Village in the Coondapoor tālut of South Kanara District, Madras, situated in 13° 40' N and 74° 58' E., at the foot of a pass leading into Mysore. General Mathews won a brilliant victory here in January, 1783, on his march from Coondapoor to Bedintir, his small force storming a formidable series of defences held by 17,000 men. Remains of the defences, once known as Haidangarh, can still be seen.

Jamambad.—A precipitous rock rising to a height of 1,788 feet at the end of a spur of the Kudamuukit in the Uppmangadi tiliki of South Kanara District, Madras, situated in 13° s' N.

and 75° 18' E. On his return from Mangalore in 1784, Tipu, struck with the strength of the position, built and garmsoned a fortress on the top, calling it Jamalibed in honour of his mother Jamal Bai, and made the town at the foot the residence of an official. The fort was captured by the British in 1799, but shortly afterwards fell into the hands of the adherents of a Mysore pretender. The garmson, however, was forced to surrender after a three months' blockade in June, 1800. The town, formerly known as Narasimhangadi, no longer exists.

Kallianpur.—Village in the Udim taket of South Kanara District, Madras, situated in 13° 24' N and 74° 44' E. It is conjectured to have been the Kalliana mentioned by Cosmos Indicopleustes as the seat of a bishop in the sixth century. It is also the reputed birthplace of Madhyacharya, the Vaish navite reformer, who was born about A D. 1199. The Portuguese established a factory here in 1678.

Karkala. Village in the Udipi table of South Kanara District, Madras, estuated in 13° 13' N and 74° 59' E. Popula tion (1901), 5,364. It was once a populous Jain town and the seat of the Bhairarasa Wodeyara, a powerful Jam family of which no representatives are now left. In the neighbourhood are many Jam remains. The most remarkable is the monolithic statue of Gomata Rays, erected by the ruling prince in A D 1431 It stands in an enclosure on the summit of a rocky bill south of the town overlooking a picturesque lake, and is 41 feet 5 inches high, with the traditional form and lineaments of Buddha. Once in arxiv years Jame from all parts gather and bathe the statue with coco nut milk. To the north, on the summit of a smaller hill, stands a square temple with projecting porticoes facing each of the four quarters, its columns, pediments, and friezes being able richly carved and ornamented Within, facing each entrance, stand groups of three life-sized figures in burnished copper, counterparts of the great statue At Haleangadi, close by, is the finest Jain stamble (pullar) in the District. It has a monohthic shaft 33 feet high m eight segments, each beautifully and variously ornamented, supporting an elegant capital and topped by a stone shrine containing a statue. The total height is about 50 feet Karkala is situated on one of the principal roads leading to Mysore, in the centre of a fertile tract containing many fine areca gardens. It has a considerable trade in noe and other local produce, and is the head-quarters of a deputy takuldar

Kudresnikh ('Home-face') -- A conspicuous peak in the

Western Ghāta, 6,215 feet high, situated in 13° 8' N. and 75° 20' E., on the borders of the Kadār District of Mysore and the South Kanara District of Madras. Its name is descriptive of its appearance seawards, where it forms a well-known mark for mariners. The approach from the Mysore side is by way of Samse, and the hill is sometimes called the Samse Parvat. The officials of South Kanara have a bungalow at the top as a hot-season retreat, and the buidle-path from that side is the easiest means of ascending the mountain.

Malpe.—Village and port in the Udipi talks of South Kanara District, Madras, situated in 13° 28' N. and 74° 46' E. It is the best natural port in the District, the roadstead being sheltered by the island of Darya Bahadungarh. The St. Mary Isles, on which Vasco da Gama landed in 1498 and set up a cross, lie about 3 miles to the north-west. The Basel Mission has a tile factory here.

Mangalore Town.—Administrative head-quarters of South Kanara District, Madras, situated on the shore of the Indian Ocean in 12° 52′ N. and 74° 51′ B.

The population in 1901 was 44, 108, of whom \$5,312 were Hindm, 7,149 Musalmans, and as many as 11,604 Christians. The town stretches for about 5 miles along the backwater formed by the Netravati and Gurpur rivers. Viewed from the sea, or from any point of vantage, it presents the appearance of a vast coco-nut plantation, broken only here by some church spire and there by a factory chimney. The busy bases are quite concealed from view.

Under various local chiefs, whether they aspired to independence or admitted the suzerainty of Vijayanagar or Bednur, such places as BARRUR and KARRALA were of greater political importance, though the local Raja, known as the Bangar chief, played his part in all the disturbances of the time. The Portuguese, attracted by trade, seized the town in A.D. 1506, and maintained a footing for the next two centuries with varying success. To Haldar, with his ambitious naval achemes. Mangalore was both strategically and politically important. On the fall of Bednur he at once seized it (1763) and established dockwards and an arrenal. Captured by the English and abandoned in 1768, it was again seized by them in 1781. Surrendered to Tipe after a heroic defence by Colonel Campbell in 1784, it fell again to the English in 1799. Always an important mading place, Ibn Batüta mentions its commerce with the Persian Gulf as far back as 1342.

Mangalore is now the centre of the commercial and indus-

trud enterprise of the District. Tile making, introduced by the Basel Mission, which has two factories in the town, is carried on by another European firm and nine native merchants as well, and the exports of tiles are valued at 3 lakes. The town also contains a well known weaving establishment belonging to the Basel Mission, as also a mechanical establishment of theirs, and three printing presses. Coffee is the chief article of export, the amount sent out being valued at 48 lakhs annually is all brought from Mysore and Coorg to Mangalore to be cured, an industry in which four European and three native firms are engaged. The other articles emotted are areca nuts and spaces (II lakhs) rice (85 lakhs) and salted fish (25 lakhs) The total value of the exports amounts to 861 takhs amountly Of the imports, valued at 392 lakhs, piece-goods (52 lakhs), salt (44 lakhs), gram and pulse (32 lakhs), and honor (28 lakhs) are the most important items. Steamers and large vessels are obliged to anchor outside the backwater, but the Arabian buggalows and country craft, of which more than 2 000 enter annually, can cross the bar Reclamations and improvements, including a pier and tramway, have lately been completed at the wharves at a cost of Rs 70,000. The St Aloysins College (first grade), founded by the Jesust Mission in 1880, and the Government College (second grade) are the chief educational institutions. The former has an average attendance of 460. students, of whom 60 are reading in the college classes. Mangalore was constituted a municipality m 1896 receipts and expenditure during the ten years ending 1902-3 averaged Rs 48,600 and Rs 48,200 respectively. In 1903 4 the corresponding figures were Rs 66,400 and Rs 63,000, the chief stems in the receipts being the taxes on houses and land and a grant from Government. There are 2 municipal hospitals with 32 beds for in patients, and also a private leper asylums. A dramage scheme for the western portion of the town, the estimated cost of which is Ra 1,46,000, is under considera bàn

Mindbider.—Village in the Mangalore tobut of South Kanara Dustrict, Madria, intuited in 13° 5′ N and 75° E, 21 miles east of Mangalore town. It was once an important Jam town, and a descendant of the old Jam chief, known as the Chouter, still resides here and draws a small pension. It contains eighteen Jam basels or temples, one of which, the Chandranath temple, is the finest building of the kind in the District. It has about 1,000 pillars, all of them most beautifully and richly curved. The architecture of these basels is peculiar, and Fergusson.

states that the nearest approach to the type is to be found in Nepil. By the sloping roofs of their versidas and the explorance of their carving, they show that their architecture is copied from constructions in wood. Close by are some tombs of Jam priests, built in several storeys, but of no great size and now much decayed. There is also an old storie bridge, which is interesting as showing the ancient Hindu methods of constructing such works.

Fileshwar.—Village in the south of the Kasaragod take, South Kanara District, Madras, situated in 12° 16' N and 75° 8 E. The surrounding territory formerly belonged to a branch of the Chirakkal family of Malabar. The local Rapis offered considerable resistance to the Bednur kings in the eighteenth century, and were assisted alternately by the French and the English. When the District finally fell to the Company in 1799, the Rapis accepted a pension, which is still continued. The village is now of little importance.

Putter Village.—Head quarters of the Uppmangadi tāluk and subdivision of South Kanara District, Madras, situated in 12° 46′ N and 75° 12 E Population (1901), 3,999 The surrounding country belonged to Coorg, and after the Coorg rebellion of 1837 troops were stationed here till 1860

Subrahamanya (or Parkéagur).—Village in the Uppmangadi taluk of South Kanara District, Madras, situated in 12° 41 N and 75° 36 E, at the foot of a celebrated mountain, the correct name of which is Pushpagin, on the border of that District and Coorg. The mountain, which is two pointed, precipious, and of peculiar shape, is one of the most prominent heights in these parts, resembling, as seen from Mercara, a gigantic bullock hump. Elevation, 5,626 feet above the sea. At its summit are many ancient stone caurus. In the village is an old and famous Sarvite temple, and it is one of the chief centres of serpent worship in Southern India. To the cattle fair held at the time of the annual festival in November-December it has been estimated that 50,000 cattle are usually brought, mainly from Mysore.

Udipt Town.—Head-quarters of the tilish of the same name in South Kanara District, Madras, situated in 13° a1' N. and 74° 45' E. Population (1901), 8,041. The Krishna temple here, said to have been founded by Madh-Echirya, the great Vandinavite reformer, in the thirteenth century, is largely resorted to by pilgrims. There are also eight ancient matter (religious houses), and each of the heads of these presides in turn over the Krishna temple for two years. The most impor-

tant festival is the Pariyaya, celebrated at the change of these moumbents in January of every alternate year

Ultil —Village in the Mangalore Asket of South Kanara Datrict, Madras, attuated in 12° 50′ N. and 74° 51′ E, on the south bank of the Netraväti river opposite to Mangalore town. It was once the seat of a Jam family of some local importance in the sixteenth and seventeenth centuries. The Italian traveller Della Valle (1623) mentions the queen of Olaya. With the exception of a ruined temple at Southath, about a mile to the south, which contains sculptures of peculiar design, hardly a trace is now left of the former importance of the place. It is at present a straggling baser with some trade, but depending for its prosperity mainly on the transport of passengers and goods to and from Mangalore and elsewhere, an occupation which gives employment to a large number of Mappalla boatmen. The population in 1901 was 6,181

Yenter (or Vener)—Village in the Mangalore tähek of South Kanara District, Madras, amated in 13° 1′ N and 75° 9′ E. Its former importance is attested by numerous remains, the most remarkable being a coloreal monolithic Jain statue, 37 feet high, similar to that at Karkala but smaller, which was constructed in 1603. The population in 1901 was only 628.

TRAVANCORE STATE

Travancore State (Tiravankär, Tiravahunkeli, 'the abode of the Goddess of Prosperity ').-- Native State in political relations with the Government of Madras, affairs in it and the adjoining State of Cochin being controlled by the Readent in Travancore and Cochm. It takes its name from Tirnvankod (Teretadoulads) in Evanuel talish, 30 miles south of the capital, TRIVANDRUM, in ancient times the chief town of a small principality which subsequently grew into the present State. It lies in the extreme south west of the Indian Peninsula, between 8° 4' and 10° 21' N. and 76° 14' and 77° 37' E. It is bounded on the north by the State of Cochin and the Madras District of Combatore on the east by the lofty range of the WESTERN GBAYS, beyond which he the Districts of Combatore, Madura, and Timevelly, the line of demarcation passing along the summet of the Ghitis; on the south by the Indian Ocean, and on the west by the Arabian Sea. Its frontiers are thus defined by natural features on all index except the north, where portions of the State of Cochan at several points intervene between it and the sea in the north-west. Its greatest length from north to south is 174 miles, and its greatest width, near the northern boundary, 75 miles. Its breadth is very irregular, gradually demunishing from the north and converging to a point at the southern extremity, the average width is about 40 miles. shape, the State is triangular, the apex being at CAPE COMORIN Its area, according to recent measurements, is 7,001 square miles. Of this, more than 2,500 square miles are covered with forests, jungle, and backwater; and about 2,000 square miles by low chains of hills, a portion of which is available for равшладе

The State is perhaps the most beautiful and most fertile area in all Southern India. It was thus described by Lieut. Conner in his report on the survey made at the beginning of last century—

'The face of the country presents considerable diversity, although its general character, except the southern parts, is extremely abrupt and mountainous. The coast, for a short distance along the borders of the lake ', is generally flat;

⁴ That m, the lime of backwaters referred to below.

retreating from it the surface immediately becomes unequal, roughening into slopes which gradually combine and swell into the mountainous amphitheatre that bounds it on the east, where it falls precipitately, but terminates less abruptly on the south The collected villages, waving plams, palmyrs topes and extenave cultivation of Nanchanad resemble m every particular the neighbouring province of Tinnevelly, except that it in no measure partakes of its comparatively and stenlity. Approach mg northward thus fertile plam is succeeded by the woody and rugged surface of the genuine Maleyslam, some few champaign tracts enclosed within this ocean of forest reheve the uniformity of the sylvan scene. The extent Immg the coast for its whole length presents a fertility so near the sea that it imparts a peculiar character to the landscape. This rich and variegated tract is flanked by a mountamous barner, and is finely contrasted with the sombre magnificence and desolate solitude of those wilds of which the elephant seems the natural master, and though the landscape may be too much made up of this wild scenery, it boasts of many striking localities and peculiar beauties, if not of the sublime, at least romaniic and picturesque The eye is arrested by the wild, rocky, precipitous acclivines and fanisatic forms assumed by the mountains in the more southern parts, but proceeding north the bold and elevated contour of the Alpine tract is less sharply defined few rugged cliffs and sprry points or control summits alone breaking through the sameness of its rounded and sombre This Apennine dissolves into clustering hills and romantic inequalities, at whose feet wind innumerable valleys, presenting (particularly in the middle parts) the most delightful landscapes whose natural beauties are embellished and diversi fied by the prospect of churches and pagodas Indeed, the endless succession of houses and gardens scattered in picturesque order over the face of the country gives it entirely a different appearance from the other coast, the midity of whose plams is improved by contrasted with the robe of florid and exuberant vegetation that for a great part of the year clothes Malayalam The areca and coco nut everywhere fringe those picturesque and sequestered giens, which gradually expand into the extensive plantations and cultivated lands that shirt the sea and lake. This space is enlivened and fertilized by innumer. able rivers and pastoral streams, whose borders are crowned with groves and cultivation that, everywhere, following their winding course, present a unique, interesting, and charming acenery, infinitely more diversified than most other parts of the Penmeula and one that would indicate abundance. This is especially the case in Kuttanad, the watery fistness of this fertile fen is reheved by the gardens and habitations so thickly strewn over its surface, which exhibits a network of rivers meandering through the verdure they create!

It has been truly remarked that 'et will be difficult to name

another land which, within so narrow limits, combines so many, so varied, and such precious natural blessings.' 'Where the land is capable of culture,' it has also been and 'there is no denser population. Where it is occupied by jungle, or back water, or lagoon, there is no more fairy landscape.'

The mountainous character of Travancore is due to the Western Ghata, winch flank it on the eastern aide, and reach their highest elevation in the north east of Amaintoni Prant. 8,837 feet above the sea, the numerous beights clustering round this part being often termed the High Range South of this group are the Cardanou Hills and Pirane, where the land spreads out in a plateau of considerable width with bills running up to about 5,000 feet. For the rest of its length the range consists of a ridge at an elevation of about 4,000 feet, with isolated peaks, of which Agastyamalai and the Mahendragiri are the most important. From the main range of the Ghata rocky spurs run out towards the west, in some cases to within a short distance of the sea. From Outlon southwards these secondary ranges soften down into undulating slopes, intersected by gions and valleys, which grow wider as the elevation of the bells decreases, and are very productive

Owing to the mountainous character of so large a portion of the country, its rivers and streams are very numerous. They have generally a very winding course, and they empty them selves either into the backwaters referred to below or directly mto the sea A dozen principal rivers with their inbutanes and ramifications intersect the country m all directions. The largest of them is the Pertyllr ('big river'), which is 142 miles in length. This rises in the Swagiri forests, 60 miles south of Devikolam on the High Range, at an elevation of over 3,000 feet. From here it runs north, but inclining towards the west, until it reaches a point close under that range. Thence it turns to the west and plunges down between immense cliffs of rock, and after a long north westerly course reaches Always, where it divides into two branches, that to the north falling into the san at Pallapurane and the other to the south emptying itself into the backwaters west of Emilinian. The upper waters of this great river have been unlized by the PERIVAR PROJECT for irrigation in the Madura District of Madras.

An interesting chain of lakes or backwaters extends along the coast from the northernmost frontier to I rivandrum. These are either expansions of the rivers at their mouths, or extensive sheets of water receiving the accumulated flow of several rivers and streams. They are separated from the sea by a bar of sand from 7 miles to about half a mile in width, but the rivers have several outlets by which they disgorge themselves into the sea. The flood-tides also flow over the bars into them and cause them to rise about a feet. These backwaters, of which there are more than a dozen, their total area aggregating 157½ square miles, are connected together by navigable canals, the whole forming a water communication extending to a length of acc miles. The largest of these are those of Käyankulam and the Vembanad. The latter is 32 miles long and 9 miles broad, covering an area of 79 square miles. A few fresh water lakes exist in the State, the two largest being at Vellani near Trivandrum and Sasthānkotta near Omion.

Only the southern and western parts of the State have been (geologically surveyed. The Ghan commut of old crystalline rocks, which are splendidly displayed in the south. The lowest sedimentary rock is a grey fossiliferous limestone found round about Omica, which is the only one of the kind yet known in the Presidency From the fossils it contains, it appears to be of eccene age. Resting upon it is a senies of variegated sands. and clays, underland by carbonaceous clays or shales and lignites and capped by laterite, which is known as the Warkalli (VAREKALLAI) series from the village of that name not far from Qualon. There they form a line of cliffs on the sea face extending along the coast for a distance of 22 miles. Petrologically, they resemble the Cuddalore sandstones, and their colouring is often very beautiful. The latente of Travancore. which occurs largely in a belt of country extending along the coast for many miles, is twofold in character. In places it is a superficul rock formed by the decomposition of the gnessic rocks, in others it is a true laterite formed of debris washed down from higher levels. The latter is typically developed in the neighbourhood of Kottayam, where it is largely used as a building material. Along the coast are white sand-dunes and areas of red sand or ters. These last stand high, though close to the coast, and are a well known landmark for manners Westward of Cape Comoran are a few fringing reefs of dead comi. A phenomenon which has given rate to no small discusmon is the remarkable mud-bank lying in the sea 6 miles south of Allerpey. This is about 4 miles long by ra wide, and n affected by tidal action. It operates in a remarkable way to prevent the formation of waves, the soft only much minutes with the see water when the heavy occan waves touch the bank, and so smothers their creats that the water made the bank is quite smooth and forms an admirable anchorage. The

supply of med is supposed to be renewed by being forced out below the banks by the weight of the water in the flooded backwaters and streams of the mainland. Another curious point about this anchorage is that the amount of fresh water brought down by the streams and falling in the heavy rams of this coast is so great that it lies on the surface of the heavier sea water to a considerable depth, and sailors can obtain drinking water by letting down a bucket from the side of their ship into the sea around them

The great differences which occur in the altitude of the State have naturally resulted in a large variation in its flort. Generally speaking, the majority of its plants are those which love a warm and exceedingly damp chinate. In the upper ranges of the Ghats is found the heavy evergreen forest, and the principal trees here are referred to in the account of the Forests below. The low country is conspicuous for the masses of areca and coco-nut palms which abound in it, and another prominent tree is the glossy leaved jack. In the mans every hollow is filled with a historiant tangle of vegetation, and ferms and mosses grow in profusion on every bank and wall.

The mountains and sast forests of Travancore afford admir able cover for large game. Elephants are numerous. Tigers, leopards, bears, bison (gost) the Nilgin ibex, sandar and other kinds of deer abound. Some duck, and test are plentiful in the low country and otters are often seen in the backwaters.

Along the coast the climate is equable and damp. The temperature seldom falls below 70° and hardly ever rues above 90°. At the foot of the hills the variations range to 5° or 6° on either aide of these temperatures. On the hills the thermometer naturally varies with the altitude. On the High Range the climate is that of a temperate region, the thermometer falling to 50° or 60° in the day, and fronts at night being known in the winter months.

The minfall is heavy. The greatest quantity, brought by the south west monacon, falls between May and August. It wards the end of October the north east monacon asserts itself, but the ram it brings is lighter on the low country than on the hills in the north east, where it descends in sudden and very heavy showers. The Invandrum Observatory is the only place in Travancore where accurate observations of meteorological phenomena have been made over any considerable period. They may be taken, however, as fairly representative of a wide area. The average annual rainfall there is 58 metes. On the Parmed hills the fall is about see inches.

Of the early history of the State but little is known. Tradition E says that it formed part of the ancient kingdom of Kerala, and that in the early centuries of the Christian era the whole of the west coast was ruled by a succession of chiefs who each held office for twelve years. About the first half of the nmth rentury A D, Chemman Perumal, the last of these, is said to have divided his country among his relations, one of whom received the southern portion or Travancore, and then to have gone on a pilgrimage to Mecca. It seems fairly certain that during the latter half of the eleventh century the State was conquered by the Cholas, but about a century later the local kings recovered their lost possessions. During the middle of the thirteenth century the south eastern portion of the State was invaded by the Pantoyas of Madura, who had then reasserted their independence of the waning Cholus. By the beginning of the next century, however, the local kings once more reguned power. Achyuts Raya, the Hindu king of Vijayanagar, and Sadžana, his successor, myaded the State in 1534 and 1544. After the battle of Tahkota, in 1565, in which this dynasty was crushed by the united Muhammadana of the Deccan, the State appears to have become feudatory to the Naik kings of Madure. At this time it seems to have been a congenes of petty chiefships, each of which claimed preemmence over the rest. In the first half of the eighteenth century, however, most of them were subdued by Martanda Varma, who may justly be called the maker of modern Travan. core. He had his troops disciplined in the European fashion by a Flemish officer named De Lannoy (whose tomb may yet be seen in the ruined chapel of Udayagm fort in south Travancore), he strengthened the fortifications of the country, improved its revenue administration, adomed it with palaces and temples, and increased its opportunities of commerce all his undertakings he was assisted by an able minister named Rama Ayyan Dalawa, and both king and minister are even now the subjects of many popular anecdotes Rama Ayyan was also commander in chief of the king's army. Foremost among his military exploits was the conquest and ameration of the three principalities of KAYANKULAM, AMBALAPULAI, and CHANGAMACHERI The consolidation of the conquered term tones, the suppression of internal dissensions, and the establish ment of peace and order formed his life work. The organiza tion of a commercial department for the development of trade, the introduction of an excise system, and the preparation, for the first time, of a consobdated statement regulating expen

diture by the revenue were the most promutent of his labours as minister. Several of his measures and rules are still in force, and are popularly referred to as the sattase ('rule') of Rama Avyan Dalawa

Martanda Varma was succeeded by Rama Varma, who followed in his footsteps. He succeeded in subdumg the remaining chiefs, and in 1761 constructed the historic Travan core Lines, stretching in an almost straight line from the shore of the Cochin backwater opposite the ancient town of Cranganur to the foot of the Ghats, to protect his State against the incursome of Hamar Ah who had about this time usurped the sovereign authority in Mysore Haidar threatened Travancore twice in 1766 and again in 1776. But on both these occursoes his plans were thwarted by the Dutch, who stood between him and the State. In 1778 the Rapa granted a free passage through his territories to the British troops sent to attack the French settlement of Mahe, then much valued by Handar as the base of his military supplies. He had already treated with contempt Harders proposals to become his vassal, and had openly avowed himself the friend of the British, whom he actively coined in their campaign against the Muhammedan ruler. In consideration of these services, he was expressly named in the Treaty of Mangalore concluded with Tipu, the son and successor of Haidar in 1784, as the friend and ally of the British Threatened by Tipu in 1788 the Raja entered mto an agreement with the Braush by which he allowed two battahous of sepoys to be stationed on his frontier at his own expense. Just then Jipu, claiming the forts of Avakotta and Crangantir, which had recently been purchased by the Rasa from the Dutch, invaded Travancore (1789) He was utterly defeated and narrowly escaped being slain in the encounter In the following year Tipu renewed the attack, and cruelly devastated the northern portion of the country. But hearing that the British had in consequence declared war against him, he beat a hasty retreat towards Palghat, and on the conclusion of the war, in 1792, he was compelled to restore all that he had wrested from Travancore. In 1795 the Rapl entered into a fresh treaty with the British, by which he engaged to pay an annual subsidy adequate to maintain three battahons of sepoys, with hisropean artillery, in return for protection against all aggressors by sea or land. The Rays. also bound himself not to enter into any agreement with any Furopean or Indian States without the previous coment of the British Government, nor to grant the former any settlements

in his country, and to assist the British, whenever required. with his troops, who would be maintained at their cost years after the conclusion of this treaty, the Raja died had been ably assured throughout the latter part of his career by Diwin Rips Kesawa Das, who is even now popularly remembered in the State as the great Diwan. The Raid was succeeded by his nephew Raja Bala Rama Varma prince was a weak ruler, and mirigue began. On the disband ing of the Nayar battahons in 1804, an insurrection was raised to subvert British influence in the councils of the Raje was easily suppressed by the subudury force from Quilon and immediate measures were taken to prevent its repetition in future. A treaty was concluded in the following year (1805). by which the Ripi was reheved of his old obligation to furnish military aid, but was required instead to pay amoually, in addition to the former subsidy of 8 lakes of rupees, a sum adequate to mamman one more native regiment and to bear an equitable proportion of the expense of a larger force, when necessary. He moreover bound himself to allow the British Government to assume the direct management of the State in case of non payment to pay at all times the utmost attention. to the advice of the British Government, to hold no communication with any foreign State, and to admit no European. foresmer into his service, or to allow him to remain within his territories without the previous sanction of the British Govern ment In 1800 the Dream Velu Tampa Dalawa, in committee with the chief minutes of the Cochin State, raised an insurection and attempted to murder the Resident, Major Macanlay The outbreak was easily suppressed and the Raja was required to defray the expenses moured. These were but tardily discharged, and the British Government was about to assume the internal administration of the country, as the only means of ensuring a satisfactory settlement, when the Raja died in 1810

He was succeeded by Lakshmi Rani, who confided the administration of the State to Col J Munro, the Rendent, and from that date Travancore commenced a fresh career of peace, progress, and prospenty. The Rani died in 1815, and her sister Parvati Rani became regent till Rania Varna, Lakshmi Rani's eldest son, attained his majority in 1829. During his reign of seventeen years from that date, a series of administrative reforms were undertaken. He was succeeded by his younger brother, Martanda Varna, in 1846. The latter was followed in 1860 by his nephew, Rania Varna, who

received in 1862 from Earl Canning, then Governor General of Incha, a series granting to him and his successors the right of adoption on failure of natural hears. He died in 1880 and was succeeded by his brother, also called Rama Varma, who in 1885 was succeeded by the present Maharaja, His Highness Sir Sir Rama Varma, G. C. S. I. The State maintains a military force (part of which is known as the Nayar Brigade) of 61 cavalry, 1,442 infantry, and six guns, and the Maharaja is entitled to a personal salute of 21 guns.

Systematic researches in the field of archaeology have vet to be undertaken in the State. Some barrows have been discovered in the mountamous parts of north Travancore. They consist of three rude low pillars with a conical laterate cover, and are locally called Pandukulus, that is, 'pits of the Pandavas'. Two remarkable caribworks are also to be seen in Todupular talket in the north east. In the low hill ranges, mounds of earth laid along the ridges are frequently met with, and also stone cromlecus, with slabs planted in the middle of them, containing spacriptions. Roman saves and other come of the early emperors have been dug up. In 1896 a State archae ological department was organized, and through its agency inscriptions are being collected and deciphered. Most of these occur in the ancient temples with which the country abounds.

The population of the State was 2 311,379 m 1875, 2,401 158 in 1881, 2,557,736 in 1891, and 2,952,157 in 1901 it contains nine towns and 3,885 villages. Six per cent of the people live in the former. The towns have on an average 20,426 inhabitants and the villages 712. The density of population is as high as 416 persons per square intle. Hundre in 1901 numbered 2,035,615 (68 9 per cent of the total), Christians, 697,387 (23 6 per cent), Muhammadans, 190,566 (64 per cent), Animists, 28,183 (09 per cent) and others, 401 Malaysiam is the language of more than four fifths of the population. As many as 192 castes have been returned. Of these the Nilvans, the old military class, are the most numerous, aggregating 520,941, or 25 per cent. of the total Hundri popula-

The laws which govern succe-sion are peculiar, descent being traced in the female line, according to the prevalent usage on the west court. Any fasher in the direct female descent requires the adoption of two or more females from the immediate relations of the family, all of whom are emigred a desinguished rank and empty many privileges, as alone entitled to give here to the State. Owing to fashers of natural basis, two girls have security been adopted, with the sentence of the British Covernment.

Among them, as also among some of the lower castes, succession is traced through the female line, and marriage is a social compact, dissolvable at the will of either party. The next largest castes are the Iluvans or I iyans (491,774, or 24 per cent), the Pulayans (field labourers, 206 503, or 10 per cent), and the Shānāns (toddy-drawers, 155,864, or 7 per cent). The Paraiyans, the Kuravans, and the Asaris number between 50,000 and 100,000, and the Vellalas, the Brahmans, the Mārāns, and the Kollans between 20,000 and 50,000. The most important class of Brahmans is that of the Nambūdris, who affect extreme conservatism and ceremomal purity. I welve other castes are each more than 10,000 strong. Of the Christians returned, 534 are Europeans. Sixty per cent of the entire population depend upon agriculture in one form or other for their means of subsistence.

Church is the oldest in the State, and is believed to have been ¹ founded in the very early centuries of the Christian era ¹. The Catholic mission, which comes next, may be said to date from 1330, when Pope John XXII deputed Friar Jordanus to be Bishop of Columbum (Quilon). The chief Protestant missions are the London Missionary Society and the Church Missionary Society, founded in 1806 and 1816 respectively. Of the total number of Christians, Roman Catholics number 377,500, Syrians 227 670, and Protestants 92,217.

The collection and record of vital statistics was begun throughout the State in August, 1905, but the system has not yet reached a high stage of efficiency. The birth rate in 1903-4 was returned at 186 per mille of the population, and the death rate at 145 per mille. The majority of deaths were due to fevers.

The soil of the country differs in different localines. That , along the count is fine whitish sand, with a miniure of calcareous it clay as a lower stratum, combined with vegetable matter, that in the lower parts of the valleys consists generally of a brownish-coloured clay, often porous and permeable and, in some places, suff and hard to work; and that in the upper lands reposes on a basis of laterite, which frequently appears superficially in large masses.

As the revenue settlement now proceeding has not yet been finished, no accurate agricultural statustics are evallable. The principal food grain grown is rice, the area cultivated with it

I For details me The Syrven Church on India, by the Ray G. Milus Rus (London, 1892)

being about 940 square sinles. The main source of agricultural wealth is, however, the coco-nat tree. The crops next in importance are pepper, arecainnt, jack fruit, and tapiocs, the two last forming considerable items in the diet of the power clauses. On the hills are grown cardsmons, coffee, and ten, the last being the most important.

Buffaloes and bullocks are used for ploughing. The agricultural stock is, however, very poor, and cattle breeding is not conducted on any considerable scale. The climate is probably too wet to allow animals to thrive well.

Though the extent of nee cultivation is large, the amount grown is not sufficient for the needs of the dense population. Large quantities are, therefore, imported. Famine, however, of the nature and extent experienced elsewhere in India is unknown. Garden cultivation is the mainstay of the people, and it is only when the gardens fail to yield their annual produce that scarcity begins to prevail. Failure of the rice crops tells, of course, adversely on the population of the locality affected, but its operation is usually limited to particular areas, and with the remission of taxes and other help from the State and with the proceeds of their garden produce, the people are able to buy imported rice and in a manner tide over adverse seasons.

From an irrigation point of view, the country contains two distract divisions. In north Travancore, with its numerous rivers and watercourses, the impation works are chiefly intended to protect the cultivation against floods and from the influx of saline water through the communications with the sea. South Travencore, on the other hand, with its comparatively small number of rivers, frequently suffers from scarcity of water. The rainfall has therefore to be stored and distributed in these areas In very ancient times a dam was built across the Paralayar and a well devised system of irrigation was organized. Though this has done much good, agricultural depression has been not infrequent. In order, therefore, to secure an efficient water supply a project for damming up the waters of another river, the Kodayar, is now under execution. The supply so obtained is expected to irrigate an area of about 25,000 acres already cultivated, and also to bring under cultivation a fresh area of between 50,000 and 60 000 acres

The forest area, which is confined to the eastern parts of the country, comprises nearly one half its total extent. The growth may be divided into four different classes. (1) heavy most forests of evergreen trees, confined to the slopes of the Ghitts and to perhaps about one-third of the upper hill plateau. (2)

land originally covered with moist forest, but now overspread with scrub of various ages, (1) deciduous forest, with grass growing under the trees, which covers the ridges and higher ground and a part of the hill platean, and (4) rock and land covered with short grass. This last class is of no utility as far as timber is concerned. The second class contains no tumber of any value. except vaga (Albestia procesa) In the most forests, the trees grow very close together, and exhibit an extraordinary variety of species. Among the most important are chony (Dissip) for Ebenum), hambagam (Hopea parviflora), anjih (Articai pus hirman, nick (A micerifolia), and white cedar (Dyscavhus malabaramm) The deciduous forests are the most valuable, and here grow the trees for which Travancore is famous, such as teak (Tectona grandus), blackwood (Dalbergia latifolia), sandal wood (Santalum album), srul (Xvisa dolabriformis), vengas (Pierocarpus Marsupeum), and temblicu (Terminalia tomentous) The finest teak in Travancore is found on hills of an elevation of from 1,000 to 2,000 feet. About the beginning of the last century, a tree = said to have been felled in the Idrara valley which measured 7 feet in diameter at its base and 26 mehes in diameter at 70 feet from its built, giving 900 cubic feet of timber. In the Trivandrum Museum, there is a plank sawn from a tree felled in the same valley which is 4 feet 32 mehrs across. The trees felled in the forests are transported by land in south I ravancore, and in the north are floated down the rivers. The major portion of the timber felled is experted to foreign places. Pondicherry and Tubeorm and the country north and east of Madura take large supplies, chiefly of serger, hambagum, and tembers. Most of the teak and blackwood goes to Cochm, and is thence exported to Bombay and other parts. White cedar is largely used for manufacturing casks for the export of coco nut oil to Europe The more common woods are sent across to Arabia. The total value of the tumber exported in 1903-4 was Rs 3,79,000 the same year the receipts from the forests amounted to Rs 6,75,000, and the expenditure to Rs 4,73 000. The total area of 'reserved' forests was 2,153 square miles, and of land proposed for reservation 239 square miles. An area of 1,900 square miles was under protection against fire. Tesk, madalwood, and other valuable trees are being artificially reproduced, the extent opened up for teak cultivation being about 2,000 acres. Attempts are also being made to grow exotics, such as camphor, rubber, &c.

The Forest department is under a Conservator, and four

divisions, each under a Deputy or Assistant Conservator, are subdivided into ranges, each under a ranger.

The mineral resources of the country have yet to be explored and ascertained. Plumbago is the only mineral now worked to any extent. The first systematic attempt at mining it was made in 1892. Three mines are being now worked, two in the Nedunangad and one in the Neyyattinkara tālad, the total output amounting to 20,000 tons, of which 18,000 tons are obtained from the Vellanad mines in Nedunangad. Mica of a superior quality is also found in several parts of the country.

Cotton-weaving and the making of matting from coir (the fibre of the coco-nut) are the chief industries. Cotton cloths of many kinds are woven in south Travancore and sold locally. The corr mats and yarn are exported. Coarse guinny bags are also made to some extent.

There were, in 1003-4, thirteen factories in the State three at Quilon and ten at Alleppey. Of these, three make cour matting, one manufactures con fibre, three are oil-milk, one is a cotton spinning factory, and in five miscellaneous work, such as the pressing of coir, fibre, and yarn, tile making, carpentry, &c., is carried on Bendes these, thirty tox and coffee factories were worked on the High Range power was in exclusive use in eleven of these concerns. The total number of hands employed averaged 4,863, and their daily wages ranged from 1 anna 8 pies to 11 annas 2 pies Among the arts practised should be mentioned the carving of 190ry, which has long been under the direct patronage and encouragement of the rulers of the State, and examples of which won a medal at the Delhi Exhibition of 1903. Efforts are being anecessfully made, also, to establish an industry in the weaving of plantam fibre

Trade has greatly expanded of late. The value of the external trade (imports and exports) averaged 170 lakhs during the decade 1881-90 and 240 lakhs during 1891-1900, showing an increase of 43 per cent. In 1903-4 the exports formed 65 per cent, and the imports 35 per cent of the total trade. Of the sotal external commerce, 86 per cent was with British India, 9 per cent, with Ceylon, 2 per cent with the Uruted Kingdom, and 3 per cent, with other countries. Taking the trade routes, 37 per cent of the trade was carried on by sea, 45 by backwater, and 18 by land. Most of the backwater trade may, however, be regarded as sea borne trade, as it consists of goods carried to Cochin for shipment by sea. The chief centres of commerce are Kolachel, Quilon, and Alleppey on the coast,

and Kottër, Käyankulam, Changanächen, and Alwaye mland. The principal trading communities are the Musalmans, Ila Varnyans, Syrian Christians, Chettis, Velläles, and Brismans, the last three of whom do most of the banking business. The chief exports are the products of the coco-nut tree namely, copra (dired kernels), corr, fibre, and coco-nut oil and nuts, and these represent more than 50 per cent of the total. After them come pepper, tea, jaggery (coarse sugar), areca nuts, dry ginger, salt fish, timber, hides, tamarinds, and coffee. The chief imports are tohacco, rice, piece goods, cotton, and thread.

Till 1865, Travancore had its own import and export tanffis. In that year an Interportal Convention was entered into with the British Government, under which duties may be charged only upon tobacco, salt, opium, and spirits manufactured or produced in British territory and thence imported into Travancore, and on salt, opium, and spirits produced or manufactured in Travancore and imported into British territory. With the same exceptions as were arranged with the British Government, free import is allowed from Cochin to Travancore and vice versa. On foreign goods, Travancore adopts the British Indian taniff rates, except in the case of tobacco. As regards exports, it retains its own tariff, but its policy has been to keep the rates low.

Travancore is well provided with means of communication. The total length of roads maintained by the department of Public Works in 1903-4 was 3.026 miles, exclusive of 'traces' 376 miles in length. The chief haes are the trunk roads radiating from Trivandrum to the northern frontier, via Kot tärakara, Changanächen, Kottayam, and Musattupula (155 miles), to the southern frontier, via Nigercoil (53 miles), to the eastern frontzer, via Shencottah (65 miles), and to Quilon on the coast (45 miles). Among the more important roads are those leading from Changanächen and Kottayam, va Pirmed to the Kumih frontier and thence to Ammayanayakkanur m Madura District (about 145 miles); from Quilon to Shencottah (60 miles), and from Munnar on the High Range to Bodimette on the Madura aide of the frontier (21 miles) and to Chinner on the Combatore ade (40 miles) Connected with one another by numerous cross-lines, these roads form a network of communications covering almost the whole country. Where the steepness of the ground or other causes have made it difficult to open cart-roads, bridle-paths have been cut or are under construction, of which the most important are those connecting the High Range with the low country on the south

and with the coast on the west. Hardly an estate on the bills is not connected with cart roads by bridle paths.

The facility of communication which the north and central portions of Travancore enjoy has bowever, in the possession of a natural system of backwaters, bendes canals and rivers navigable for country boats. The backwaters consist of a series of lagoons running parallel to the coast, separated from it by a strip of land from balf a mile to 7 miles in breadth and artificially connected with each other wherever they may not be continuous. About 200 miles of navigable canals and back waters are maintained by the Public Works department.

I we lines of rankay intersect the country the Coulim Shormur Rankay in the north west, and the Timoevelly Quilon Rankay passing through the heart of the State. The length of the former line within Travancore is about 18 miles, and that of the latter about 58 miles. The State provided the cost of the construction of the latter through its territory, amounting to 108 lakks.

Travantore has its own postal (auchal) system, working side by sade with the British post offices. The two systems have no commercian with one another, and additional charges have to be paid on communications, parcels, &c., transferred from the one to the other. Thus articles posted outside Travancore and transferred from any British post office within Travancore for deliver, through the anches are charged at prepard rates, and those posted in any British office within Travancore and transferred to the anchal are charged at double rates. Originally, the anchel was maintained exclusively for the service of the State In 1860 st was thrown open to the public, and the watern of levying postage on letters and parcels was introduced. In 1903-4 the number of suched offices was 150 and the number of letter boxes 179, the length of mail communications was 938 miles, and about 4,684,000 covers, private and official, passed through all the offices. The hands or money-order system has recently been introduced on the lines in force in the British Post Office In 1903-4, 67,300 orders were issued and 66,800 paid, the receipts and payments amounting to Rs 0.85 see and Rs. 0.85,700 respectively

The actual receipts of the Anchal department amounted during the official year 1903-4 to Rs 77,000 or, including the same chargeable on official covers, to Rs 2,92,000. The cost of the establishment was Rs 1,00,000. The State has its own postage stamps and cards. They are of the following descriptions: stamps of the value of 8 cash (3 pass), 12 cash (5 pass),

I chakram (6 7 pies), z chakrams, and 4 chakrams, covers for I, 2, 3, and 4 chakrams, wrappers for 6 cash (2½ pies), and cards for 4 cash (1½ pies)

Famme may be said to be unknown in Travancore, though, ; as has been already mentioned, had seasons occasionally cause small and local distress

For general administrative purposes the State is divided into 31 tabula, grouped into four divisions or districts, namely, Padmanabhapuram (five tabula), Trivandrum (four), Quilon (eleven), and Kottayam (eleven). The average area of a division is 1,773 square index and the average population 738,039. A tabula averages 229 aquare index in exten and contains 92,255 persons, but, owing chiefly to diversity of physical features, the range of variation in these figures is very wide. For purposes of revenue collection, the tabular are further subdivided into smaller areas called propertie, each under a paid officer styled the propertiaerus.

Each division is provided over by a Diwan Peshkar and District magnificate, answering to the Collector Magnificate of a British District. A takinkler, who is usually a second class magnificate, is in charge of each takink. The Peshkars form a superintending and checking agency, and are responsible for the proper and regular administration of the takinks comprising their charge. In addition to the four Peshkar magnificates, there are two other District magnificates, one being the Commercial Agent at Alleppey and the other the Superintendent of the Cardamom Hills.

The chief branches of the administration, besides the Revenue and Executive, are the Judicial, Survey and Settlement, Public Works, Anchal, Forest, Medical, Sanitary, and Educational Their jurisdictions differ and are often not conterminous with the revenue divisions noticed above. Their organisation and the rules and regulations laying down the general lines of their working are mainly after the British model.

The administration of the State is conducted in the name and under the authority of His Highness the Maharajā by the Diwan or Prime Minister. A Popular Assembly, consisting of non-official gentlemen nominated by the Government to represent the various tillishs and towns and the planting interest, has recently been constituted to assist in ascertaining public opinion upon administrative questions.

The laws of the State are known as Regulations, and till recently they were framed by the Diwin and passed by the

Mahitrari. In order to secure for legislative measures the necessary guarantee of full discussion and mature deliberation. a Legislative Council was established in 1888 under a Regula tion defining its constitution and working. It now consuts of eight members, of whom three are non officials, with the Diwin as the avertice president. The maximum strength of the Council as fixed at fifteen, of whom not less than two-fifths must be selected from outside the State service. Every legal measure is first introduced in the Council and printed in the Government Gazette for criticism by the public. After being considered and pursed by the Council, it is submitted to the Maharara for approval and to the Madras Government for sanction, and becomes law only when it has received the assent of both. In cases necessitating immediate legislation, a Regulation may be passed without the intervention of the Council, but its operation is limited to a period of six months. The scope of this Council does not include the relations of the State with the British Government, the extradition of crimmals, European British subjects, seaports, post office, telegraphs, railways &c. Since the establishment of the Council, 58 Regulations have been brought into existence and have served to remodel the laws of the country on pamciples suited to present local conditions

The present pochesal machinery of the State, which is the outcome of the administrative measures of nearly three quarters of a century, consists of twenty five courts exercising civil, and arxiv four courts exercising criminal jurisdiction, all of which are subject to a High Court at Trivandrum. The lowest civil court is that of the Munsel (there are twenty of these), and its ordinary runsdiction extends to suits up to Ry 1,000 m value. Five Zila or District courts are located at the towns of Nager coil, Invandrum, Quilon, Alleppey, and Parur, which hear appeals from the decisions of Munufs and try suits exceeding Rs 1,000 m value, and also all suits to which the Government is a party. The High Court, which is the final appellate ambority, consists of a Chief Justice and three Passne Judges, one of whom as usually a European. It has no original numdiction, and hears appeals in suits of the value of Ra 2,500 and under through a division bench of two Judges, and appeals of above that value through a full bench of three Judges In the latter class of cases, the decisions have to be approved by the Maharata.

For the administration of crannel justice there are five Sessions courts, which exercise original jurisdiction in Sessions cases and hear appeals from the six District magnetrates, and seven first class, thirty-nine second class, and seven third-class magnetrates. The High Court hears only appeals, and all sentences of death or improsonment for life passed by a Sessions Court and confirmed by it have to be submitted for the approval of the Maharaja. Besides these courts, there are special magistrates, who are European British subjects and Justices of the Peace, for the trial of Europeans | 1 here justices have powers to septence up to three months imprisonment and Rs 1,000 fine Appeals from them he to the European Judge of the local High Court. The British Resident is also a Justice of the Peace with the powers of a Sessions Judge over European. British subjects, and appeals from him lie to the High Court of Judicature at Madras Europeans are within the pirisdicuon of the ordinary courts in regard to all civil matters and also in cases of contempt

Crime in the State does not present any features worths of special note. The inhabitants are very peaceable and law abiding, and the acute distress which is generally an incentive to crime is computatively unknown. The usual offences are petty thefts and assaults. The tähiks bordering on the I innevelly frontier near and about the Aramboli Pass are occasionally subject to the raids of Maravan robbers, but the sense of security within the country itself is proverbal and people generally prefer to travel during the night. Civil litigation, however, is fostered to some extent by the minute subdivision of property and the peculiar system of inheritance.

A separate department exists for the registration of deeds, I which is controlled by a Director. The State is for this purpose the divided into three districts with a District Registrar for each, and subdivided into 51 registry offices each under a sub-registrar. The average area and population served by each registry office are 139 square miles and 53,885 persons respectively. In 1903-4 the number of documents registered with 180,361, of which 97 per cent related to immovable property. The average value of each document was Rs 220.

The total revenue increased from an average of Rs 69,01,050 I during the decade 1881-90 to Rs 89,88,900 during the decade 1891-1900, or by 30 per cent. In 1903-4 the total revenue was Rs 1,02,01,900. The decennual averages for the main heads of revenue are shown on the following page, together with the actual receipts in the last official year.

A considerable increase has occurred under all the items, but it has been brought about without the imposition of

additional burdens on the people. Indeed, during the last half-century more than a hundred mincellaneous taxes and cesses have been aboushed, the land tax has been reduced in several areas; inequalities in the public burdens have been removed by the withdrawal of special demands, such as succession duties, &c., which pressed on certain classes of the population, the State monopolies in pepper, tobacco, and cardamons have been abandoned, trade has been freed from fiscal restrictions, and inclustries have been promoted by the remission of the export duties on many articles and by liberal reductions on others. As a consequence, the State resenues have nearly trebled during this period.

W	Aveca	Recepts to		
Making polyrocal of Payromas.	1981-00	1891-1966	3904 t	
Land revenue . Surt Contorns Tobacco . Abicum and opens	Ra 17 98,255 15,09,017 5,03,388 8 46,974 2,46,60s		Re. 23,97,488 19,27,837 6,92,444 12,32,694 8,41,413	
Curdumona, timber, and other forms: produce Stamps	6-73-441 1-84-240	6,67,100 3-9.014	7,83,094 4,49 674	

With this enormous growth in the revenue, the expenditure has more than kept pace. The average expenditure increased from 66.4 lakhs during the decade 1881-90 to 88.1 lakhs during the decade 1891-1900, or by 32 per cent. The per centage of expenditure on income was 96 in the former, and 98 in the latter, period. During the two years 1901-3 the expenditure outstripped the income by more than 12 lakhs, and the actual expenditure in 1903-4 amounted to 106 lakhs. This steady increase in expenditure has been in directions calculated to promote the best interests of the people, as the following figures show.—

More passes of expensions	ATEC	E	
	1861-40	1891-1906	70 1906 4.
		No.	22
Law and putter, melading police and pash	4,96,38,	7,21,663	8,78,440
Education	9,54,147	2.90,431	6,68.348
netion and metaletien. Public works	7.48.447 10,64,827	3,13,005 18,49,476	4,10,018 180,48,88

The financial policy of the State, however, has always been so to adjust expenditure to meome as to leave a small surplus from year to year, a policy which the steady expansion of the revenues has made it possible to carry out, even after fully meeting the growing requirements of progressive administration. The amounts thus saved aggregate 90 lakhs, of which 60-lakhs are invested in Government of India and other securities, bringing in an interest of Rs 2,60,000. This reserve fund is now being utilized in the execution of a few important public works, and will be drawn on still further should the current finances incline towards an equilibrium between income and expenditure.

The State has its own currency, the come being minted in the State mint at Trivandrum. The come current are silver pieces of 2 chakrams (1 anna 147 piece of British Indian currency), 4 chakrams, called the fanam, quarter of a rupee, valued at 7 chakrams (3 annas 11 16 piece), and half a rupee valued at 14 chakrams, and copper pieces of 1 cash (0 42 of a pie), 4 cash, 8 cash, and 1 chakram valued at 16 cash. There 14, however, no rupee coun, the Travancore rupee being valued at 28 chakrams (15 annas 863 piece), and the British Indian rupee being thus equivalent to 28 chakrams 8 cash. The silver come of British India circulate freely throughout the State.

The system of land tenures is of a peculiarly complicated I nature It is ryotwars in principle, the settlement being made [directly with individual ryots, but while some lands are subject t to full assessment, others pay only a nommal rate, and others again enjoy complete exemption. The numerous tenures fall under two major heads-janmen and sarker. The janman lands are of three kinds, those which are absolutely exempt from tax, the normal condition of jamman lands, those which are tax free so long as they remain with the original proprietors, but become liable to tax when they are transferred to other hands and those subject as suche to a light quit rent acrier lands are of more than sixty varieties. Some of these are freehold and emoy absolute exemption from tax, others are favourably assessed, and the rest fully assessed. The chief varieties of sarkar lands are (1) huttagestation, a tenure applied only to isolated tracts, such as the Pallmort farm and the Puhenturuttu landa, which are leased to individual ryots for comparatively short periods, (a) remeations, the most prevalent and the simplest of the tenures, under which the land pays full assessment, (3) etti, which is in the nature of a mortgage, the

parties to the transaction being the State on the one side and the ryot holding the land on the other, the consideration being either actual cash borrowed by the State or something equivalent to it, and interest being allowed on these loans and deducted from the full assessment and (4) prate tenures, or across tenus

The administration of the land revenue is based on the settlements of 1802 and 1836. According to these, the average american on 'wet' lands amounts to Rs. 2, and on garden lands to Rs. 1-2-8 per acre. To remedy the defects and imperfections of previous settlements, a comprehensive scheme of revenue survey and settlement was introduced in 1883. The survey has been almost completed. Eight talkin have been settled, and have juicled an increase in revenue amounting to over Rs. 1,20,000. The incidence of the american is Rs. 4 on 'wet land, and about R 1 on garden and 'dry' land per acre.

By the Interportal Convention of 1865, the State agreed to give up all import duties on British Indian produce with the exception of tobacco salt, opinin, and spirits, but claimed, in the form of a guarantee or drawback, the revenues realized in British Indian ports on foreign produce re-exported to Travan core. The Darbär also agreed to lower its export duty to 5 per cent advalues on all articles except papper, dired betch nots, and tumber, and to reduce the duty on tobacco to the extent of Rs 1 00,000 a year.

The salt consumed in the country is partly made within it, but mostly procured from Bombay. At three places in south Travancore-Tamarakulam, Rajakkamangulam, and Vanyursak is manufactured in State pans, the manufacturers being paid Rs o-1-8 per maund (823 lb) of salt delivered into the State stores. The Bombay salt is delivered by contractors, engaged by public auction at the Travancore ports of Munambam, Alleppey, Outlon, and Frivandrum From these it is conveyed to visitous dandshalls (warehouses) distributed over the country. There are sixty seven of these Academicals, and salt is sold at them to the public at undown rates, which are slightly higher to the case of the Bombay product than in that of the locally made salt. The present duty per maund is Rs 1-8, and the selling price is placed somewhat higher to cover the cost of establishment transport. Under the Interportal Convention with the British Government, the duty on salt is enhanced or reduced in eccordance with the British Indian rates

About s6,000 tone of salt are consumed per annum. Of

thus, so,000 tons come from Bombay, and the rest is the home product. The gross revenue on account of salt in 1903-4 was Rs 19,28,000. Deducting the charge for establishment, &c, the net revenue amounted to Rs 14,63,000.

In two of the four dramms in the State, Kottayam and a Ottilon, the supply of alcoholic liquor is worked under the farming system, while in Padmanabhapuram and Invandrum the excess system has lately been introduced. In the farming tracts, the police exercise the necessary powers of detection, are while in the excise tracts the abbars officers perform this Three takets of the Trivandrum Division are supplied with toddy arrack procured through a contractor from north Travancore and Cochin, while the remaining tabukr of the two excise divisions are supplied with jaggery arrack manufactured by a contractor at his distiller, at Nagercoil Still head duties on the different kinds of liquor are levied by the State. The import and sale of European liquor are also regulated by law Licences are issued for the sale of this on payment of fees of Rs so and Rs so for wholesale and retail vend respectively The gross abhars revenue in 1903-4 was Rs 7,86,000, and the expenditure was Rs 22,000

The right to sell option is leased for terms of three years (
The contractor procures his supply from the Government
storehouse at Madras, after paying the requirite price and duty
into the British Resident's treasury and obtaining the necessary
passes for its transport. No separate establishment is main
tained for collecting the revenue. The contract includes the
right of selling bissage.

Jaffna, Combatore, and Timocvelly tobaccos are consumed I in the State. The tobacco when imported in bonded by the importers in official warehouses, which are six in number and located at Kottar, Trivandrum, Quilon, Alleppey, Muvattupula, and Alwaye. When it is removed from these buildings, a imiform duty of Rs 90 per candy is paid to the State, irrespective of quality. In 1903-4 the gross revenue from tobacco amounted to Rs 12,32,000. Deducting charges, the net revenue was Rs 11,81,000.

Till 1894 the ministron and conservancy of urban and rural S areas were attended to by the local revenue and magisterial officers. Since then the urban areas—I royandrum, Nagercoal, Quilon, Alieppey, and Kottayam—have been placed under town improvement committees, analogous to the municipal councils of British India, composed of official and non official members with a president as the executive head, all nonimited

by the State. A separate Regulation guides their working. The expenses are met out of the State revenues and no municipal taxes are as yet levied. In 1903-4 about Rs 55,000 was spent on the five towns. The samtation of rural areas is attended to by a separate Samtary department, organized in 1895, and placed under the charge of a Samtary Commissioner. The general appearance of the towns and the health of the country have perceptibly improved since the introduction of these measures.

For the execution of public works there are two departments. the Public Works department proper under the Chief Engineer. and the Maximust ('repairs') department, under the general administrative officers. All works of importance requiring considerable scientific knowledge are entrusted to the former, while the theree of works connected with palaces, temples, and rest-houses, the construction of village roads, ordinary tank repairs, and the distribution of water for irrigation in south Travancore, rest with the latter. The Maramat department was organized in 1833 and the Public Works in 1860. In 1900-1 the total outles amounted to as a lakhs, or an percent of the State revenue, 17 30 lakks being spent by the Public Works and 4-9 lakhs by the Maramat department In 1903-4 the proportion of the revenue devoted to public works was 26 per cent. During the last twenty years, numerous works of public unitry have been constructed, such as the Women and Children's Hospital, the Central pail, the Leper and the Luranc Asyluma, the Girls' College, the Female Normal School, the Industrial School of Arts, the golf grounds, the Banqueting Hall, the Vactoria Jubilee Hall, the public library, all at Trivandrum, and, outside it, the District courts at Partir, Alleppey, and Nagercoal, Munsus' courts, tillul and other public offices, several hospitals, police stations, &c. Many rivers, the Parapplir, Vamanapuram, Turovattir, Palayir, &c. have been bridged, and several states of new road opened. Under mycellaneous engineering works may be mentioned the installation of gusheht at the capital, and the reconstruction and extension of the pier at Alleppey.

The State maintains a small force of artillery for saluting purposes, a bodyguard for the Mahlishill of sixty-one mounted men, and the Naylir Bugade of infantry. The last consists of 1,44s men officered from the Indian Army and divided into two battakons, of which one is armed with breech-loading carbines, and the other, which is chiefly employed on guard ditties, with breech loading markets.

The present police force was organized in 1881, before that I the Diwlin Peahkärs or divisional officers, the taksidārs, and sub magistrates exercised police functions. The department is under the control and management of a Superintendent, and there are three police divisions, each in charge of an Assistant Superintendent. Exclusive of these officers, the force numbered 1,743 men in 1903-4. Of these, 318 were employed in the reserve, as jud guards and so forth, so that 1,425 men were engaged in purely police duties. They worked under 44 inspectors, and occupied 65 police stations and 118 sub stations. The proportion of the effective strength to area and population was 1 to every 4.9 square miles and 2,071 persons. The average cost per policeman was Rs 136 per annum. There are no rural police, as in British Districts.

Three prisons are maintained in the State—the Central juli at the capital, under a Superintendent, and two District julis, one at Quilon and the other at Alleppey, under the District magistrates. A juli is also attached to the District Courts of Nagercoal and Partir for lodging under trial prisoners and civil debtors. The Central juli contained in 1903~4 an average daily strength of 438 prisoners. The cost of maintaining each prisoner was Rs 106 per annum, or, if the value of convict labour is taken into account, Rs 69

At the Census of 1901 it was found that 124 per cent of I the population (sr 5 males and 3 r females) were able to read and write, a very high proportion compared with most other parts of Indra. The history of the education of the people by State agencies dates back to 1834, when an English free school was opened at Trivandrum, which afterwards developed into the present Arts college Shortly afterwards, schools were started in the chief out stations to serve as feeders to the free school. In 1866 a system of State vernacular education was organized, and now every year sees the opening of new schools and an increased number of boys and girls brought under In 1800-1 there were 2,418 matitutions of all Instruction classes and grades, with 104,616 pupils. By the end of the next decade, the numbers had increased by more than onehalf Of the total of 3,727 matitutions returned in 1903-4, 430 were State schools, 1,040 private aided, and 2,248 private unerded. The pupils under instruction in these three classes of institutions numbered respectively 51,169 (26 per cent of the total), 59,430 (30 per cent.), and 86,786 (44 per cent). Of the total number of matrixtions, 3,525 were primary, 169 secondary, and #8 training or special schools, besides 6 colleges

Classified by sex, the pupils numbered 151,053 boys (77 per cent of the total) and 46,332 garls (23 per cent), grouped by religion, 63 per cent were Hindus, 32 per cent. Christians, and s per cent Muhammadans. The most nonceable feature m the educational statistics of recent years is the great advance made in female education. With the spread of institutions for their mitruction, the number of girl pupils more than trebled during the decade 1881-90, and more than doubled during the next decade. In 1903-4 female education was provided for in a Arts colleges, 3 English high schools, 1 vernacular high achool, 7 English middle achools 33 vernacular middle echools, and 138 vernacular primary echools. Education is free in all these institutions. Another feature in the educat onal bistory of the State is the effort made to bring the backward classes and the hill tribes under instruction, by the epening of special schools and the sanction of increased grants, &c In 1903-4 about 44,000 of these people were under mstruction in 480 public schools. Five institutions intuited on the hills are mainly intended for the hill tribes. The part placed by the mismonary bodies in the diffusion of education. among all classes, and among the depressed in particular, is very connderable

The total expenditure on education amounted in 1903-4 to 6 6 lakhs, of which about 1 3 lakhs was derived from fees, &c. Of this total 27 4 per cent, was devoted to primary schools

The State maintains two Arts colleges at Trivandrum, one for boys, teaching up to the BA standard, and the other for garis, teaching up to the FA standard, and also a law college In addition, three private colleges—the Scott Christian College at Nagercoil, the Holy Angels Convent College at Trivandrum and the Church Mismonary Society's College at Kottayam--teach up to the F. A. standard. Of the six training schools, two are maintained by the State, one for male, and the other for female teachers. I here are twelve special schools—the Sanskrit College, the Industrial School of Arts, and the Reformators, alf at Trivandrum and under State management, eight aided schools, the Sn Milla Rama Varma Technical Institute at Nagercoal, two schools for carpentry at Mulakumad and Attmgal, and also two schools in these places for teaching girls lace. making, the Native Technical Institute at Trivandrum, the Ruma Varma Technical and Industrial School at Changani. chen, and the Church Musponary Society's Industrial School at Kottayam, and one private (maided) maintuition, the technical school for carpentry at Pakkalas. The work m the State Industrial School comprises two branches—industry, including lacquer work, carpet weaving, carving, &c., and art, comprising drawing, design and painting—The school holds a prominent position among those of Southern Incha. At the recent Della Exhibition, Travancore recry-carving won a gold medal—The extraction of fibre from plantains and the weaving of cloth and turbans promise to be the source of a large and profitable industry, though further improvements are still required

For purposes of administrative management and inspection, the State is divided into three educational ranges, each under an Inspector in direct correspondence with the Diwan. The vernacular and the English schools, which till 1894 were under separate officers, have all been placed under the Inspectors, excepting the chief State mittiutions at the capital. A text-book committee selects or arranges for the preparation of autable textbooks.

For many years the only newspaper in Travancore was an 'English journal published at Nagercoil, which was started under mission auspices. Of late, the development of the press has been very rapid, and there were in 1900-1 twelve vernacular papers and magazines, and three English newspapers. By 1903-4 the numbers had increased to nineteen and five respectively. The vernacular papers have an average circulation of 850 copies, ranging from 2,500 to 225. One of them deals with social, one with educational, aix with religious, and eleven with general and political topics.

Travancore is liberally supplied with hospitals and dispen 1 series. Taking the State and aided institutions together, there is one to every 25,896 of the population and to every 63 square miles of the total area, or every 21 square miles of the occupied area. The State matrixtions comprise 22 hospitals and 30 dispensaries, with accommodation for 1,215 in patients. In 1903-4, 15,700 in patients and 608,000 out patients were treated at them, 26,700 operations were performed, and the expenditure was Rs 2,73,000

The massonary bodies also administer rehef to the sick at their chief centres. Foremost among the State matritutions are the General Hospital, opened in 1865, which contains accommodation for 104 in-patients, the Tinkkild Hospital, with 130 beds, founded in the third decade of the last century, the Women and Children's Hospital, with 35 beds, under a qualified lady doctor, and the Maternity Hospital, with 42 beds—all these being located at Trivandrum. The Victoria Jubilee Hospital at Quilon contains as beds. The State further maintains at

the capital two special institutions, one for lunatics and another for lepers. In 1903-4, 164 patients were treated in the former and 243 in the latter. The whole Medical department is under the charge of an officer of the Indian Medical Service, who is also Physician to the Mahlittiff and is styled the Darbit Physician. At a veterinary hospital at Trivandrum 224 animals were treated in 1903-4.

Vaccination is carried on by the Sanitary department, with a staff of 80 vaccinators, including eight women. A vaccine depôt is established at the capital, where calf-lymph is prepared under the direction of a specially trained medical graduate and distributed to the several stations. Vaccination is not compulsory, but the number of operations performed in 1903-4 was 150,000 or 50 per 1,000 of the population.

[For further particulars of the State, see the Census Reports of 1891 and 1901.]

Agastyamaini (or Agastya-kistam).—A conical isolated mountain peak in the southern portion of the Western Ghäts, situated in 80° 37′ N. and 77° 15′ E., in the Neyyättinkara tilbut of Travancore State, Madraa. It is locally known as the Sahya Parvatam and is 6,200 feet high. The boundary between Travancore and Tinnevelly District runs over it. It was formerly an important astronomical station, where two series of observations were taken by Mr. Brown between 1855 and 1865. Two rivers rise from this hill, the sacred Tämbra-Parat running east through Tinnevelly District, and the Neyyär flowing west through the Neyyättinkara tilbut of Travancore. The orthodox believe that the sage Agastya Maharshi, regarded by modern scholars as the pioneer of Aryan civilisation in Southern India and the name-father of the hill, still lives on the peak as a pagi in pious sechusion.

Alleppery (Alapeder).—Chief scaport and third largest town in Travancere State, Madma, situated in 9° 50′ N. and 76° 50′ R., in the extreme north-west of the Ambalapulai MAM, a small portion extending into the adjacent Made of Shertalkai. It is 49 miles north of Quilon, the terminus of the Timevelly-Quilon Railway, and 35 miles south of Ernäkulam, the terminus of the Cochin-Shoruntir Railway. Population (1901), 24,918, including 11,940 Hindus, 7,150 Musalminus, and 5,827 Christians. A sandy tract, overgrown with jungle till the middle of the eighteensh century, it was cleared and created a port by Maharija Rima Varma, in order to put an end to the commercial supremacy of the Dutch, who with their factory at Posakad had monopolised all the north Travancese commerce.

Foreign merchants settled there on myitation and the port was opened to foreign trade. To facilitate the transport of mer chandres, a canal was cut to connect the port with the interior backwaters. Towards the close of the eighteenth century warehouses and shops were built at State expense, a system of forest conservancy was introduced, and officers were appointed. to collect and forward all hill produce to Alleppey. The town soon increased in importance, and by the first quarter of the last century it had become the premier port of Travancore a position which it still maintains. It is a convenient depôt for the storage and disposal of all forest produce, and possesses a harbour affording safe anchorage during the greater part of the year. This is formed by the natural breakwater which exists m the roadstead in the shape of a remarkable mud bank, or floating muduland, which breaks the force of the roughest seas and ensures shelter to vessels in the roadstead. A lighthouse at the entrance to the harbour bears a revolving light visible about so miles out at sea. A trainway worked by coobes conveys goods from the pter to the warehouses close by

Several cal-malis are in operation, and the manufacture of coar matting is carried on to a large extent. The chief exports are copies, coco nata, coir, coir matting cardamoms, ginger, and pepper. The imports consist of rice, Bombay salt, tobacco, metals, and piece goods. The customs revenue from exports averages about Rs 1,90,000 per annum and from imports Rs 10,000. The harbour returns above that shipping with an annual tempage of 280,585 (steamers 260,000 toos and sailing vessels 20,585 tons) touch at the port

In 1894 the town was placed under a town improvement committee, and since then Rs 5,000 has been spent annually by the State on its improvement and conservancy. The place contains the courts of a District and Sessions Judge, a Munsif, and the District first class and second class magnitudes.

Always.—A station on the Cochin Shoranur Railway and the head quarters of the Alenged take, Transmoore State, Madres, attented in 10° 7' N and 76° 22' E, on the river Alwaye (Penyar), on whose banks the famous religious reformer Sankaracharya was born. Population (1901), 3,645. The early Portuguese used Always as their favourite bathing place and called it Fiera d'Alva, and it is still a sanitanium much resorted to during the bot months by the better classes. A Sive temple in the bed of the river attracts a large concourse of people on the Savaratin day in February. The chief market of the Mark in held twice a week, and a large trade courts in gram,

fish, and cattle. Besides the magistrate's court and a subregistrar's office, the town contains a police station, post office, district hospital, and customs house.

Ambalapulal.—Head-quarters of the tāluk of the same name in Travancore State, Madras, situated in 9° 23′ N and 76° 22′ E., 10 miles south of Alleppey, with which it is connected by a canal. Population (1901), 1,791 The shrine of Krishnaswami is visited by large numbers of pilgrims. Till the middle of the eighteenth century the place was the capital of an independent langdom of the same name, ruled by the Chempalasseri Rājas, who were Nambūdu Brāhmans of the Chempalasseri Illam (house) of Kotamālār in the Ettimānūr tāluā. As rulers they bore the generic name of Deva Nārāyanan. As one of them had assisted the Kāyankulam chieftam against the ruler of Travancore, an army was led against him in 1748 by the latter's minuter, Rāma Ayyan Dalawa, who took and imprisoned the Rājā and annexed the principality to Travancore.

Anaimudi (Elephani's forehead) — A peak of the Western Ghāta, in the extreme north-cast of Travancore State, Madras. situated in 10° 10' N. and 77° 4' E. It is 8,837 feet above the sea and the highest point in Southern India. Though very precipatous, it is accessible from the north and with less ease. from the east. From the top is obtained a magnificent view over the Madras Districts of Combatore, Madura, and Malabar, and the States of Travancore and Cochin. On a fine day, the sea can be seen on the west, the intermediate hills and forests making a splended foreground to the picture, while to the north rise the great Analmanai Hillis, on the north-east stretch the plains of Combatore, the Nilgiri plateau, and the Anchanad valley, in the south rise the CARDAMON HILLS and the range beyond Pixw2D, and in the south-east a glimpse of the Bodinayakkantır valley is seen. Round Anaimudi are clustered a number of other peaks of nearly the same elevation, running in a horseshoe, the opening of which hes towards the north east. The low valleys between these hills drop to 3,000 or 2,000 feet. The whole area, extending over 100 square indea, forms the plateau known as the High Range. The greater part of this is covered with fine short grass, with stretches of heavy forest on the lower ground. Before tea and coffee estates were opened, thu was a famous place for game of all kinds; but now the Nilgin iber and the bison are the only animals found in any considerable munbers. Small game may be said to be entirely absent. Elephants visit the plateau in large numbers during the south-west monsoon. Some of the most valuable trees of Travancore grow here and in the adjoining Anchanad valley.

Ariankavu.—Village, pass, and shime in the Shencottah takek of Travancore State, Madras, intrated in 8° 59' N and 77° 9 E, in a circular valley about a mile from the head of the pass, 54 miles from Trivandrum, 50 from Quilon, and about 50 from Trinnevelly Population (1901), about 1,000. The principal line of road from Trinnevelly via Shencottah into Travancore passes by this village as also does the Trinnevelly Quilon Railway. The extension of the tea und coffee planting industry has increased its importance. It contains a temple of great antiquity dedicated to Sastha, which is asserted to have been built by Parasu Rama. It has in a hollow surrounded by hills. The whole of the pass about 18 miles in length, presents a succession of grand forest scenery.

Attingal, ... Village on the banks of the Vamanapuram or Attingal river, in the Chirayinkil stake of Travancore State Madray, on the high road from Trivandrum to Quillon, intuated in 8° 40 N and 76° 48 E. Population (1901), 3,889. It is the chief place in the Attingal properts, the hereditary estate of the Ramis of Travancore. Captain Nieuhoff, who gives almost the earliest description of it observed in 1664 that the ancient race of the kings of Travancore owed its origin to Attingen. The sensor princess of the Travancore royal family is known as the Attingal Mutta Tampuran. The installation of the Ramis takes place here, and the Mahurup pays a state visit to the village every January.

Cardamom Hills - Range of hills in Travancore State, Madras, situated between 9° 26 and 10° 8 N and 76° 40 and 77° 7 L south of the Anamuch group. They form an elevated plateau at a height of 3 000 to 3,500 feet, with peaks and hills running up to 5,000 feet, and comprise the High Range in the north, the Cardamom Hills proper in the centre, and those of Pirmero in the south. Area, about 1,000 square miles, population (1901), 21,589 Though not a distinct revenue division, they form a separate division for magisterial and certain other purposes, under the charge of a Superinten dent and District magistrate assisted by a first class magistrate located at Primed Cardamoms formed a State monopoly till 1896, when a system of land tax was introduced. The ryots now receive permanent occupancy rights, with the power to relinquesh their holdings at will. They are mostly natives of neighbouring British Districts, and own no property in Travan core except these cardamom lands. In 1905-4 the area under

cultivation was 13,608 acres, of which 12,570 acres paid the prescribed assessment of Rs. 6-4 per acre. Since the abolition of the monopoly, European capital has thrown itself largely into this enterprise. Viewed from the economic and industrial aspect, however, the chief value of the hills has less in their emment sunishibity for cardamens cultivation than in the fact that they are now the chief seat of the tea planting industry A large amount of British money has been invested in this enterprise the capital of one company alone amounting to a million sterling. The High Range is the centre of the greatest activity, and is the largest and most compact tea district in all South Indu. The hills are tapped by roads and bridle-paths, which connect them with the Cochin State and the sea on the west and with the British Districts on the east. The expenditure by the Travancore State on public works in this area in 1903-4 was Rs 1,47,000 The Cardamom Hills are provided with civil and criminal courts, police stations, post offices, hospitals, telegraphic and telephonic lines schools, &c.

Changanachers.—Head-quarters of the talak of the same name in Travancore State, Madras, attnated in 9 26 N and 76° 36 E, 38 m has north of Quilon and about the same distance from Cochin, on rising ground washed by the eastern borders of the Kuttanad delta. Population (1901), 14,264, made up of 7,317 Hindus, 1,822 Musalmans, and 5,125 Christians. It possesses the finest Syro-Roman church on the Malabar coast. A market, the best attended in all north Travancore, is held twice a week, at which the chief linde is in rice, pepper, dry ganger, areca nuts, and piece goods. The town was formerly the capital of the Tekkumkur principality, it was taken by Rāma Ayyan Dalawa, minister of Mahariya Martanda Varma in 1750, and annexed to I ravancore.

Comorin (Kanapahamari) —Village, shrine, and headland in the Agastisuaram tilbul of Travancore State Madras, situated in 8° 5 N and 77° 33' E. It is the extreme southern point of the Indian Pennsula, from which the chain of the Western Ghata resis northwards. Population (1901), 2,368. On the sea shore and at the apex, as it were, of the Indian Pennsula stands the temple of Kananyimbili 'or the virgin godders,' celebrated for its sanctity. It is one of the most important places of pilgranage in Southern India. In the Perpeties, reference is made to a harbour here, but none exists now. Ordinary sinhing vessels frequently touch here, however, and the State authorities contemplate making it a port. It contains a palace of the Mahitagi and one of the Rendencies in Travancore.

Edappalli (the Replem of Dutch writers)—The largest of the identity, or petty principalities, of the Kunnainiki is high. Travancore State, Madras, situated in 10° 1' N and 76° 22 E, with an area of 6½ square miles. Population (1901), 13,348. It is held by a Nambudin Brithman of the highest rank, who is called the Edappalli Rija but has no civil or criminal authority within the principality. He is entitled to all the revenue from his lands, and holds them free of tax or tribute to the Travancore State, except a small sum of money for police services rendered. The residence of the Raji is at Eduppalli now a station on the Cochin Shorantir Railway. The Edappalli chiefship is believed to be the sole relic of the ancient theocracy of the west coast.

Kayankulam.—Town on the backwater of the same name in the Karthapalli taluk of Travancore State, Madras, intuated in 9° 11′ N and 76° 30′ E. Population (1901), 5,745 Formerly the capital of an independent principality known as Onad, it held an equal position with Venad, or Travancore. In the insteenth century it was an important harbour where the Portuguese had a factory. The Onad Raja was the earliest Malabar ally of the Dutch. After a protracted war, he submitted to Travancore in 1746. In a D 829 one of the earliest Syrian Churches was founded here. The place has a well attended market and a magnitudes court.

Hillmanthr.—An identity, or petty principality, in the Chira yinkil ishik of Travancore State, Madras, attended in 8° 46′ N and 76° 52′ E. Population (1901), 3,053. It is a freehold estate belonging to the Koul Tampurans, who are allied by marriage to the Rans of Travancore and thus to the reigning family. The estate was granted about 1728, in recognition of the bravery with which a Koul Tampuran saved a Rant and hear apparent to the throng of Travancore from their enemies.

Kolachel.—Seaport in the Eraniel Allah of Travancore State, Madras, situated in 8° 11' N and 77° 18' E. Population (1901), about 1,000. From 15 to 20 steamers and 40 to 50 native craft touch at it annually during the shipping season, September to April. The principal exports are jaggery (coame sugar), coffee, salted fish, palmyra fibre, cour, and timber, and the chief imports are rice, Bengal grain, crockery, and iron. It was once the site of an inchgo factory. The place is referred to by Bartolomeo as a safe harbour well known to the ancients, and was occupied for a time by the Danes, the Dutch sustained a signal defeat here at the hands of Rima Ayyan Dalawa, commander of the Travancore forces, in 1740, from

which date began the decline of their power on the west

Motter (the Ketters Metropolis of Ptolemy, the Ketters of the Pentinger Tables, the Minimus Chelapurum of the Chola period)—Suburb of Nagercod town, in the Agasturumum tāluh of Travancore State, Madras, intuated in 8° 10′ N. and 77° 26′ E. Population (1901), 3,747—Formerly an independent town with considerable traffic, visited by merchants from far and near it is still the chief trading centre in south Travancore Weaving is largely carried on, and cloths of very fine texture are manufactured—It contains a Roman Catholic church and an English high school

Kottayam —Head quarters of the false of the same name m Travancore State, Mactras, situated in 9° 36' N and 76° 11 E, on the banks of the Minachil river which runs into the Vembaniid lake, connected with the great Cochin estuary Population (1901), 17,552, consisting of 9,414 Hindus, 672 Musalmans and 7,466 Christians. The place is a centre of the Syrian Christian community, whose church here is one of the most ancient on the west coast. It contains two high schools owned by the Synan Bishops, which are known as the Mar Dionymus and Mar Thoma semmanes The Church Massonary Society has been at work here since 1816, and owns a flourishing college and a high school. There are several putiting presses, and seven newspapers and journals are published in Malaytlam. Standing on the threshold of the communications with the Pirmed range of hills, the town serves as a convenient thart for the exchange of goods

Marutvamalai.—Isolated hill, forming the southernmost extremity of the Western Ghats, in the Agretiswaram sidek of Travancore State, Madras, intuated in 8° 8′ N and 77° 35′ E, about 5 miles north west of Cape Comorm. Tradition regards it as having been dropped from the Oshadhi Parvatani or medicine hill' while this latter was being taken by Hamiman from the Himilayas to cure the wound of Lakshmana sustained during the battle with Ritvana's forces. It is still believed to be the abode of tages and to contain many species of rare medicinal harbs

Magercoal (Nagarisms, the temple of the serpent) — I own in the Agastiswaram adult of Travancore State, Madras, situated in 8° 10′ N and 77° 17′ k, within 7 miles of the Aramboli Pass. Population (1901), 25,782, consisting of 20,045 Hundis, 2,570 Musalmans, and 3,167 Christians. Once the capital of Travancore, it is now the head quarters of a District and Sessions Judge, a Munasi and other officials, and

also of the London Missionary Society. It contains a college, schools, and a hospital. The naive Christian women turn out fine lace which commands a brisk sale

Padmanil bhapuram (Palpaniveram).—Town in the Kalkulam salud of Travancore State, Madras, situated in 8° 13′ N and 77° 24′ E, about 32 miles south of Travandrum. Population (1901), 3,257. This was the most important of the ancient capitals of Travancore. It is surrounded by a square fortification, now fast going into rums, 25 miles in circumference, constructed about 1757 under the supervision of a Flemish captain named De Lannoy. The Mahārājā'a palace within is the most attractive feature of the town. The place is the head quarters of the Padmanibhapuram division (district), and contains the magistrate's and Munsif's courts and other public offices.

Partir (Paravier).—Head quarters of the tilbut of the same name in Travancore State, Madras, situated in 10° 10 N and 76° 15' E, about 17 miles north of Ernäl ulam, the southern terminus of the Cochin Shoranur Railway Population (1901), 12,962, including almost all the Jews of Travancore. A Rajil of Partir once ruled here. At one time the place belonged to Cochin, but it was made over to Travancore in 1762. It was then converted into a military station for the frontier troops. Tipti, in his second invasion of Travancore, destroyed a great portion of it. It is now a busy trading centre, and contains the courts of a District and Sections Judge, a Minist and a magistrate, and other public offices.

Pirmed.—Hill station on the Pirmed range of hills, forming the southern portion of the Cardamom Hills, Travancore State, Madras, intuated in 9° 33' N and 76° 59' E. Population (1901), 9,938. Its general elevation is from 3,000 to 3,500 feet. Around it are thirty ten estates owned by Europeans, containing about 8,000 acres under crop. Roads connect the station with Changanächeri, Kottayam, Trivandrum, and other important places on the west, and with Madura District on the east. It is the head-quarters of the first-class magnetrate and Assistant to the Superintendent and District Magnetrate of the Cardamom Hills, and contains postal and telegraph offices. Pirmed is supposed to be an absidgement of Pirmeds ('Pir's hill') and to have been so called because a Musalman mint named Pir Muhammad once lived here in seclusion.

Ponmudi.—A picturesque hill in the north-east of the Nedumangad #### of Travancore State, Madras, situated in 8° 44' N. and 77° 10' E., at the head of the basin of the Virmanapurum river. It is about 3,000 feet high and contains a sanitarium which is largely visited. Tea is extensively grown in the neighbourhood, and a company called the Ponsaudi Tea Company has been formed.

Porakad (Porcs).—Town in the Ambalapulai tšink of Travancore State, Madras, situated in 9° 22′ N. and 76° 22′ E. Population (1901), 2,264. Formerly the head-quarters of the Chempakasseri Rājās, it passed to Travancore in 1748. It was once a notable port, but declined with the rise of ALLEPPEY. The Portuguese, and after them the Dutch, had settlements here.

Punaltr.—Head-quarters of the Pattanapuram MAA in Travancore State, Madras, situated in 9° 1′ N. and 76° 59′ E. Population (1901), 2,826. It is a station on the Tinnevelly-Quilon Railway, and the neighbouring forests yield excellent fibre which is made into paper.

Quilon (Kellen).-- Town and port in the taluk of the same name, Travancore State, Madras, situated in 8° 53' N. and 76° 36' B. Population (1901), 15,691. It is one of the oldest towns on the coast and was refounded in A.D. 1010. Its natural situation and consequent commercial importance made it covered by every foreign power, and subjected it in its early days to many political vicinsitudes. Towards the middle of the eighteenth century the State of Quilon, also called Desinganado, was annexed to Travancore. It was formerly one of the greatest ports on the west coast, but has now fallen to a very considerable extent from its high estate. With the opening of the Tinnevelly-Quilon Railway, however, Quilon, as the terminal station, now finds itself placed in direct communication with the Madras Presidency and should revive once more. A milway siding has been made to the edge of the backwater. The palace of the Mahārājā of Travancore is on the borders of the Outlon lake, which General Cullencalled the Loch Lomond of Travancors, and which possesses enchanting scenery. The town also contains a Residency, the office of the Diwan Penhkar, the District and subordinate courts, high schools, hospitals, and other institutions. Cottonweaving and minning and the manufacture of tiles are the chief industries. A cotton-spinning mill has been opened recently. The chief exports are coffee, tea, fish, timber, pepper, and coir; and the chief imports are salt and tobacco. The customs revenue averages about Rs. 10,000. The tounage of vessels of all classes which call annually at the port is \$2,000. The assitation and conservancy of the town are attended to by a town improvement committee.

The ancient history of Quilon goes back to the earliest times of the old Synan Church in India. The Nestonan Patriarch Jesujabus of Adiabene noted in the seventh century that Quilon was the southernmost point of Christian influence. It appears in Arabic as early as a D 851 under the name Koulom Mall, when it was already frequented by ships from China. It is the Coshes of Marco Polo, and was an important place in the thirteenth and fourteenth centuries. The Portuguese had a factory here, which was captured by the Dutch in 1662 From them, it passed to the English Rast India Company The portion now in the possession of the British Government is known as Tangasseri

Shencottah.—Head quarters of the tātak of the same name in Travancore State, Madras, situated in 8° 59' N and 77° 15' B, on the high road from Quilon across the Ghāts to Tinne velly, from which place it is about 40 miles distant. Population (1901), 9,039, of whom 90 per cent are Hindus. The Tinnevelly Quilon Railway enters Travancore through this town. There are several test and coffee estates in the neighbourhood. About 3 miles to the south are the Kuttālam waterfalls. It formerly belonged to the Rājās of Hayatatunād and was annexed to Travancore in 1734.

Suchindram.—Village and shrine in the Agastiswaiam takeh of Iravancore State, Madras, attnated in 8° 9′ N and 77° 27′ E, 8 miles to the north-west of Cape Comorin on the high road to Trivandrum Population (1901), 2,470. In the centre of the village is the famous shrine of Sthamumalaya Perumal, a Saivite manifestation of the Hindu Triad, accorded by the Travancore government the first rank among State shrines, and visited by thousands of worshippers during the annual car festival

Tamgapatam (the Rutlam of the early European traders) — Port in the Vilavankod tohok of Travancore State, Madras, musted in 8° 14′ N and 77° 10′ E, at the mouth of the Kulturu river Population (1901), 1,105. It was one of the first possessions of the Dutch in Travancore

Thruvaliam.—Village and thrine in the Neyyättmlara tability of Travancore State, Madraa, attuated in 8° 21' N and 77° 5 E., 3 miles south of I rivandrum Population (1901), 4,164. Its temple, dedicated to Vishini, is of great sencitly and antiquity. Ananta Padmanähha, the tutelary deity of the Travancore royal house, is said to be resting with his head on this shrine, his body at Trivandrum, and his feet at Trippapur.

Thruvankod (Tirrovidulosis) -- Village m the Eraniel

tishuk of Travancore State, Madraa, situated in 8° 15 N and 77° 18 E. Population (1901), 1839. It is an ancient capital of Travancore and the place from which the State takes its name.

Trappapitr.—Village and shrine in the Trivandrum tillat of Travancore State, Madras situated in 8° 33' N and 76° 58 B, about 5 inless north of Trivandrum. Population (1901), 1,937 The shrine, in which are worshipped the feet of Viahim, is of great sanctity. Ananta Padmanabha, the tutelary deity of the Iravancore royal bouse, is said to be resting with his head at Trivandrum, his body at Trivandrum, and his feet at Trippapir. This last name is a corruption of Trippadapuram ('city of the body feet.), and after it the Mahmaja's family was formerly known among the Valabar kings as Trippapir inversions. The Maharajās first put on the crown at this shrine and thereafter take the name of Kulasekhara Perumal, a custom which suggests that this was the king's first capital, at least at the time when the coronation ceremony was instituted.

Trivandrum (Tire Inantaparam, 'the holy cuts of Ananta') -- Capital of Travancore State, Madras, situated in 8° 20 N and 76° 57 E Area 9 89 square miles population (1901), 57,881, consisting of 20,992 males and 27,890 females Hindus number 47,860, Mussimons 4,083, Christians 5,913, 'others' ay Trivandrum is the largest town in Travancore, and the residence of the Maharaja and the British Resident It has a miles from the sea, and contains a fort enclosed by a high wall about 1,000 yards long from east to west and about 800 yards from north to south. The fort and its neighbour hood constitute the most crowded part of the town, and here annelst his people lives the ruler of the country. The cele brated thrine of Sri Ananta Padmanabhawami is situated within the fort facing the east, a few yards made the eastern This has made Irrandrum a great religious centre, which attracts pilgrims from all parts of India throughout the year. In fact the town has really grown up about the shrine and owes its name to it. The temple has a revenue from land amounting to Rs 75 coo, and is under a peculiar system of management. Within the fort are also the palaces of the Maharaja and other members of the ruling sumily. On the main road, a mile to the north of the fort, are the Hurur Kachen, in which the establishments of the Diwin (or Minister), the High Court, and other head offices are accommodated in a handsome range of buildings of classic style. To the north

of the public offices are the colleges for boys and girls, the Victoria Jubilee Hell, the Industrial School of Arts, the public library, the Christian churches, and the military cantonment in which is located the Näyar Brigade Farther north again is the Napter Museum, erected in the public gardens on plans embracing the prominent features of Malaysiam architecture Close to the Museum is the Observatory, where John Caldecott. the first astronomer (1837-49), and J A Broun, FRS, conducted their observations. The building, which was planned and erected by Captum Horsley of the Madras Engineers, is situated on a laterite hill, 195 feet above sea level. Scattered about in all directions save the south are the residences of Europeans and natives, picturesquely situated on isolated hills mang from 50 to nearly 200 feet above the sea, commanding beautiful views over a country which is percrinally green and floursbing

As regards industry and commerce, Trivandrum ranks below some of the other towns in the State. It has a small scaport, but the few vessels that touch at it have to lie at some considerable distance from the shore. Trivandrum is connected by good roads with all the important centres in the country. I owards the south, an excellent road about 53 miles in length leads to the Travancier frontier across the Aramboh Pass, placing the town in communication with Timevelly, which is about 50 miles from the boundary. Towards the north, a chain of backwater communication gives easy access to Quilon and Cochin, and thus with the South Indian and Madras Railways.

Udayamperer (or Duamper) — Town in the Vaikam tribut of Travancore State, Madras, situated in 9° 55 N and 76° 25' E Population (1901), 5,327 Alexas de Menezes held here the famous synod of Diamper in 1599, a most important event in the history of the Synan Church in Malabar

Valkam.—Head quarters of the *tābik* of the same name in Travancore State, Madma, attested in 9° 46′ N and 76° 24 E Population (1901), 9,567. It has an ancient temple dedicated to Siva, which is visited by thousands of worshippers on the Ashtami days in February and November. It also contains a Munsul's court

Varkkailai.—Village and shrine in the Chirayinkii talasi of Travancore State, Madras, situated in 8° 42′ N and 76° 53′ E, on the coast almost indway between Quilon and I rivandrum Population (1901), 3,160. The high sandstone and laterite headlands (the Warkalli beds of the geologists) that here abut

on the sex have been pierced by two tunnels at a cost of about 18 lakhs, and a canal has been led through them which completes the backwater communication from Trivandrum up to Tirur in Malabar. The village contains the celebrated temple of Japardan, an *south* of Viahnu, which is visited by pilgrims from all parts of India. The numerous mineral springs here abouts and the close proximity to the sea have made Varikallai a favourite Hindu samitarium. At Edavai, 3 miles to the north, the Danes had a factory in the seventeenth century

Vellandd.—Village in the Nedumangad talak of Travancore State, Madras, satuated in 8° 34′ N and 77° 3 R. Population (1901), 1,326. Plumbago mining is carried on here by a European company.

Verapoli (Varepushe) — Town in the Parur takek of Travancore State, Madras, situated in 10° 4' N and 76° 17' E. o miles north east of Cochin Population (1901), 331 is the centre of a Carmelite mission. A body of barefooted Carmelites settled in Cochin in the seventeenth century, but were afterwards expelled by the Dutch East Indu Company Thereupon the Raya of Cochin gave them a mece of land at Verapoli where they built a church. Dr. Day mays that 'the church is a miniature representation of St. Peter's at Rome It a perhaps the most exquisite little building in this part of India ' According to the Concordat of 1886, Verapoli was erected into an Archdiocese, and all those portions of Travan core not coming under the Diocese of Cochin were divided. between the Archbishop of Verapou and the Bishop of Quilou The Catholic population under the Archbishop is about 70,000

Vilinjam (also called Rajendracholapuram)—Fort in the Neysattinkam (180k of Travancore State Madras, situated in 8° 23 N and 76° 59' E, 12 miles south of Travandram Population (1901), 1,879. It was once an important scaport, and the capital of the Chola kings who conquered and settled in Travancore. About 1644 it was granted by the Raja of Venad to the English hast India Company, who exected a factory and carried on trade. With their withdrawal to Anjengo forty years later, its importance declined. On an average only eight vessels touch at the port in a year.

COCHIN STATE

Cochin State (Kochchi)—Native State in political relations with the Government of Madras, called after the town of the same name, formerly its capital but now a British possession. It has between 9° 48 and 10° 49 N and 76° and 76° 55 E, and has an area of 1,361½ square miles. The State is singularly diversified in its configuration and physical aspects. It consists of two disconnected parts, the larger of which is bounded on the north by the Malabar District of Madras, on the east by Malabar and Travancore State, on the south by Itavancore, and on the west by Malabar and the Araban Sea. The smaller part, called Chittur, is situated to the north-east, and is entirely surrounded by the Madras Districts of Malabar and Coim batore. There are also a few small isolated tracts encircled by Travancore.

The State is divided into three well defined parts—the hills, the plams, and the seaboard. The hilly or eastern portion, which covers nearly half its total extent, is formed by a section of the WESTERY GHATS and is broken by long spurs, extensive ravines, dense forests, and tangled jungles, rising terrace after terrace to an elevation of 5,000 feet above the sea. It is covered with magnificent forests of teak and other valuable trees, and exhibits everywhere a splendid luxurance of foliage and flowers. Stretching westward, in gentler slopes and gradually widening valleys, but broken here and there by molated low bills, the plams succeed the forest-clad uplands. Intersected by nume rous mers and streams, dotted everywhere with homesteads or farms, and closely cultivated wherever possible, these plains stretch in a succession of gentle undulations towards a line of backwaters on the coast. Between the backwaters and the sea m a long and narrow stretch of mand, densely covered with luxument coco-nut palms, and in some parts, where there are natural or artificial embankments, with wide extents of rice-It is low and generally swampy, and is in several parts hable to be flooded during the monecon mundations

The chief mers are the Alwaye, the Chalakudi, the Kurumah or Karuvannur, the Pomaini, and the Anamalai. The Alwaye is really a Travancore river, but runs through Cochin for a few miles; and along this part of its course there are several neat bungalows on its banks, for the use of the members of the ruling family and the chief officers of the State. The Chalakudi rises in the Kodasseri forests and, after a tortious course of nearly 70 miles, empties itself into the backwater a few miles from Cringantir. The Kurumith, which is known as the Karuvanntir after its punction with the Manali, drains the Paravattian and Palapith forests. The Ponnam receives mimerous streams rising from the Cochin forests, and forms for several miles the boundary between Malabar and Cochin. The Anamalia or Chittur river, in its course through Combatore and Malabar, meanders along 15 miles of Cochin territory in a broad bed of rock and sand

One of the most striking physical features of the country is the continuous chain of lagoons or backwaters already men tioned, which run parallel to the sea and receive the drainage of the numerous streams descending from the Western Gh'tts They are very megular in form, varying in breadth from 4 miles to a few dozen yards and branch out into a number of intricate and shallow channels, sometimes containing low alluvial islands. They communicate with the sea at three points-Cochin, Crammatit, and Chetwa Though they are shallow in most places, pavigation along them is at all times possible for flat bottomed pussenger and cargo boats. There are also two extensive fresh water lakes, which are connected with each other, the Engwikkel and the Manakkod: A part of the former hea in Malabar District. These lakes open into the backwaters at Enamäkkal and Chirakkal, and embankments are constructed to prevent the ingress of salt water from these during the hot season, when the beds of the takes are sown with nee. The area thus annually cultivated exceeds 7,000 CIC

The prevailing geological formation of the eastern part of the State is greas, which decomposes into a soil emmently suited, in combination with the heavy rainfall, to support a histinant forest growth. Proceeding westwards, the formation merges into a laterate underlain by greas, and becomes sandy on the scahoard.

The flora of the hilly part of the State resembles that of the rest of the Western Ghitts, consisting charity of plants that love a warm and monst chimate. The principal trees are referred to under forests below. Coffee and cardamome are grown on the NEI LIAMPATHIS. The more prominent growth of the laterite plants includes numerous sack and mange-trees, areca palms,

and various species of plantain. The coco nut palm is the chief tree on the seaboard.

The forests of Cochin contain all the larger animals of I Southern India. Elephants and brion (gaser) are common in the Parambikolam range and to a less extent in the Kodasseri range. Nilgin ibex are occasionally seen in the higher ranges of the Nelhampathis. Tigers, bears, leopards, hyenas, sameer and other kinds of deer are met with in all the forests. The hunting leopard and the wolf are said to be found in some of the jungles. Monkeys and birds of species uncommon away from the west coast are found both in the hills and on the plans. The rivers and backwaters contain oftens and crocodiles.

The climate, though damp and enervating, is not unhealthy (It is most most in the southern tālkār, which are attracted those to the sea and the backwaters, but less so in the north. Of all parts of the State, the Chittur talkāt, attracted within the Palghat Gap, has the driest and most bracing chimate. The lower hills and parts of Chittur are feverish, especially during the dry months. Elephartians is very common along the coast. The temperature is fairly uniform throughout the year, the highest figure recorded in 1903 was 96° in April, and the lowest 60° in December, the mean being 85°

The tainfall is very heavy, and is fairly regular and uniform I in quantity. Like the west coast generally, Cochin gets the benefit of both the monsoons in full. In Chittur, however, owing to its attuation within the gap, the supply is less comous, and this accounts for its direct clanate. The average aimual rainfall, based on the statistics for the twelve years ending 1903, was 136 inches at Trichir, 108 at Ernäkulam, and 66 at Tatta mangalam. The State has not for several generations suffered from any serious natural calamities, such as destructive floods or earthquakes, and famine is practically unknown.

Tail about the middle of the ninth century A D Cochin I formed part of the kingdom of Kerala. About that time, Cheraman Perumal, the last ruler, according to tradition, of the vast country stretching from Gokarn in the north to Cape Comorn in the south, resigned the kingdom into the hands of his relatives and friends, embraced Islam, and went on a pigninge to Arabia, where his tornh in reported to have been found. The present Rajas of Cochin claim to hold their territory in direct descent from him. Nothing is known of the subsequent history of the State till the advent of the Portuguese, except that there was constant strife between its rulers and the

neighbouring chiefs, especially the Zamorin of Calicut. In 1502 the Portuguese were allowed to settle in the town of Cochin. and in the following year they bunk a fort and established commercial relations with the surrounding country. In the were with the Zamorin, they rendered effective aid to the Rible of Cochin. In 1599 Menezes, the Roman Catholic Archbubon of Gos, convened a synod at UDAYAMPERUR (the Diamper of history), a village about 12 miles to the south-east of Cochin. at which the tenets of the Synan Christians, then a large body, were declared heretical, and all their service-books were corrested in order to rid them of Nestorian phrases. In 1662 the Dutch oussed the Portuguese from the town of Cochin. They also obtained possession of several villages on the coast by friendly negotiation with the Raja, but otherwise left the latter to reum supreme. About a century later, in 1750, when the Dutch power began to decline, the Zamorin of Calicut invaded the State, but was expelled with the aid of the Raid of Travancore, who obtained a portion of Cochin as a reward for this service. In 1776 Haidar Alt, the Muhammadan maurper of Mysore, myaded the State, and the Raja agreed to acknowledge his reseranty and pay tribute. The State remained tributary to him and to his son and successor Tipd till 1791, when the Rapi entered into a treaty with the British by which he become their vassal and agreed to pay an annual tribute of a lakh of rupees. In 1808 Pilityath Achan, the hereditary chief minister of the State, entered into a comprisely with the minister of Travancore to assassmate the Rendent, and raised an insurrection against the British power without the knowledge of the This was easily suppressed, and a fresh treaty was concluded which imposed an enhanced tribute of about all lakhs. The Rapi also engaged to hold no correspondence with any foreign State and to admit no Europeans into his service without the marchon of the British Government, who might dismantle or garmon any fortresses in his dominions. On the other hand, the British undertook to defend the territories of the Raja against all enemies. In 1818 the subady was reduced to a lakbs, which has since remained unaltered. The subsequent history of the State 25 one of internal reforms and increasing prospersty. In 186s the Rapa received from Earl Canning, then Governor-General of India, a sense granting him the right of adoption on failure of natural hear. As in the adjoining State of Travancore, succession is through the female. line, according to the prevalent usage on the wost coast. Highness Sir Rama Varma, the present Raja, succeeded in

1895 He was created KCSI in 1897 and GCSI in 1903. He is entitled to a solute of seventeen guns

Prehistoric dolmens or burial carms are found here and there, the especially in the upland tracts, as also are rock cut caves, the chief of which are those of Tiruvilwamala and Trikitr. The remains of the Dutch fort at Cränganur, of the lines erected by Travancore and Cochin to stop the advance of Tipu, and of the fort round the town of Trichitr still exist. There are several old temples, of which the most noteworthy are the Vadakunnathan shinne in Trichitr and the Tiruvanchikulam temple near Cränganur. The Jewish synagogues at Martan Cheki, with a clock tower nearly 300 years old, the copperplate charters of the Jews, and some old Christian churches are of archaeological interest. But few old macriptions have been found, and they possess little historical value.

There are 659 towns and villages in the State. The popula 2 toon was 601,114 in 1875, 600,278 in 1881, 722,906 in 1891, 1 and 812,025 in 1901. The decline in 1881 was due merely to indifferent enumeration. The State is divided into the seven talasts of Kanayannur, Cochin, Cränganur, Mukundapuram, Trichur Talapilli, and Chittur, the respective head quarters of which are Emakulam (the capital of the State), Mattanchen, Cranganur, Impalakuda, Trichur, Vadakkanchen, and Chittur Other noteworthy towns are Kunnamkulam and Tattaman galam

Statistics of population, according to the Census of 1901, are appended ---

Thánh.	Arra a space	Name of Land	berof	Population	Population per specie ja le	Percentagn of services in population between state and apor	Number of persons shis to read rad write
Kanayannatı	81	I	88	114,618	1,419	+ 115	19 935
Contra	63	1	61	120,456	1919	+ 14 1	18,425
Cringinair	19	ľ	1 7	19,140	1.534	+ 40	3,638
Makandapanan	418	I	139	161,811	387	+111	16 108
Trichar	seg	I	174	145,104	645	+ 15 ,	13,384
Telepille	272	I	163	151,815	b\$5	+ 130	16,600
Churter	185	3	25	99,649	3 4	+ 186	8,894
Total	1,362	7	бда	B12,008	196	+ 11 5	108 979

Nearly 69 per cent of the people are Hindus or Animusts, 7 per cent Mussimins, and more than 24 per cent Christians.

Jews number 1.137. The population increased at the rate of 12-3 per cent during the decade ending 1901, and the density now is as high as 596 persons per square mile. Malaysiam is the language of 88 per cent of the population and Tamil of nearly 7 per cent. In the Chittur takk, which adjoins Combatore, as many as 36 per cent of the people speak Tamil.

Though the most numerous caste in the State are the toddydrawing fluvans or Tryans, who number 184,504, the most characteristic and important caute is the Nayars, who mumber 111,837. They formed the militia of the country in olden times, but are now chiefly agriculturists and Government servants. They follow the Marumakkattayam law of inheritance. 1 e succession through the sister's children, and among them marriage is not a legal but only a social compact dissolvable at the will of either party. Among other castes who follow the some law are the Kabattrivas or the ruling class (893), the Ambalavana or temple-servants (7,483), and low caste Sudma, such as bathers, washermen, and weavers (7,521) Brahmans of this coast, called Nambudrus (6,407), are a very conservative people who remin, more than any other class of Brithmans, the old world paety and purity of the priestly class. Among them the eldest sons alone marry in their own class, the other sons forming albances with Nayar and Ambalavasi women. Other castes include the artistans (20,800), the Valens (7,564), and Arayans (4,081), who are fishermen and boatmen, the Velans (8,843), who are washermen to low castes, and the agricultural labourer Cherumana (59,840), Paraiyana (8,841), Vettuvans (6,349), and Kanakans (5,917). The hill tribes melude and Nayada, 2,631 Malayana, 439 Ulladana, and 310 Kadans The chief occupation of the people is agriculture, and as many as 49 per cent. of them (excluding coco-nut growers) hve by the land. The next most considerable occupations are those connected with the coco-nut, such as oilpressing and rope and mat-making, and with the backwaters, such as catching and curing fish, rowing boats, and so on, by which 16-6 per cent. of the people are supported

The economic condition of the people has improved considerably during the last thirty years. Wages of unskilled labourers have risen during this period from z_1^2 to 4 annua in towns and from z to 3 annus in villages, while those of skilled labourers have risen from $4\frac{1}{4}$ to 8 annus in towns and from $3\frac{1}{4}$ to 6 annus in villages. The prices of food-stuffs have also men, however. The price of husked rice, the chief food-grain,

was Rs of per maund in the early seventies, while it is now nearly Rs. 4. The poorest class of agricultural labourers, the former predial serfs, still receive their wages in kind at the old rates, but on the whole the people, especially the urban population, are now much better off than were their fathers thirty years ago. They live in better houses, are better clothed, and enjoy more comforts in everyday life.

Births and deaths have been registered since 1896. The v statistics are collected by the village officers and submitted at the end of each month to the talak office, where they are consolidated. As there is no law in the State which renders it obligators on the part of householders to report the births and deaths occurring in their families, the statistics cannot be considered exhaustive or rehable. The number of births and deaths registered in 1903 was only 8 5 and 9 6 per mille respectively of the population.

Of the 198,239 Christians in the State (1901), 196,690 are 6 natives. Of these, 77,818 are Roman Catholics under the ² Archbishop of Verapoli (Varapuxha) and the Bishops of Cochin and Coimbatore, 90,142 Romo Syrians under the Bishops of Trichur and Ernakulam, 8,884 Chaldean Syrians under the Patriarch of Babylon, 17,408 Jacobite Syrians under a Metro politan owing allegiance to the Patriarch of Antioch, 514 St. Thomas or Reformed Syrians under the supreme control of a local Metropolitan, and 1,924 Protestants of various denominations.

The history of the Catholic and Syrian Churches in Cochin would fill many pages and is beyond the scope of the present article. There were Christians on the west coest in Marco Polo's time, in the thirteenth century. The Protestant missions started work in Cochin but recently. The Church Missionary Society began operations first at Trichur in 1842 and at Kimramkiniam in 1854, the Church of England Zanāna Mission at Trichur in 1881, and the Leipzig Lutheran Mission at Chettur in 1882.

At the foot of the Ghats and in the Chittur tiluk, the chiefunderlying rock is gness of a micaceous or hornblendic variety, loam derived from which is chemically very favourable for cultivation. In the middle zone of the State, the soil is a lateritic clayer loam, the laterite being derived from a quarticose variety of the gness. In the tracts near the backwaters and the sea, the earth consists of recent deposits of sand and mid, due mostly to river alluvium. These two latter varieties are of moderate fertility.

- Cultivation is almost entirely rain fed, the monacon rains being both regular and abundant. It derives material help, however, in the Chittur tubik from the irrigation works on the Anamaka river, and elsewhere from temporary dams across smaller streams. Rice, of which some 50 varieties are locally distinguished, forms the staple cultivation. Two crops of this are generally raised on all the low ground and one on land on a higher level, while a third crop is raised on some of the best land fed by impation from wells or minor streams temporarily dammed. The 'dry' crops are the usual cereals and pulses, plantams and other vegetables, betel leaf and areca put, tamora, sugar-came garger, and pepper. These are neither extensive nor important Next to nee coco nut growing engages the chief attention of the cultivators. The tree is largely raised in the sandy tracts, and its products form the chief exports of the State Coffee is grown on the Nelliampathis, the area under it being \$18s acres. The total extent under 'wet' cultivation is 137,000 acres. Statustics of the area of dry lands are not available. No noteworth, improvements have been made in agricultural practice in recent years
- d There is no indigenous breed of cattle or sheep Milch cows are imported from Combatore, and draught bullocks from Mysore. Their degenerate progeny and crosses, supple mented by buffaloes, which seem to be better adapted to the chimate, supply the plough cattle. Sheep of the "sumer breed are imported from Combatore, and a puny variety of goats is bred here and there.
- Permanent arrigation works exist only in the Chittur tabel, where two anicuts have been constructed by the State and four by the ryots. In the other tabels small areas are arrigated by temporary dams put up annually across the minor streams. There are 169 such dams or chirar, of which 48 are made by the ryots. The total area under arrigation is 17,000 acres, or 12 per cent of the 'wet area. Of this, the State canals supply 5,000 acres and the State dams 6,200, while the rest is watered by private works, chiefly canals. A sum of Ra 17,000 is annually collected as irresition case.

The forests of Cochin form one of its most valuable assets As they have not yet been fully surveyed and demarcated, their exact extent is unknown. The approximate area is 605 square miles, or nearly half of the State. Till recently, the importance of forest administration on scientific principles was not sufficiently recognized, and the reckless destruction of the forests by timber criticis, cultivators, and firewood gatherers went on

to a great extent unchecked. But a better system of administration was inaugurated about 1898, with the result that, while many parts of the forests are now enjoying a long needed rest, the revenue from this source is increasing enormously

The department is under the control of a Conservator. The whole forest area is divided into two charges, called the northern and southern divisions, each under an Assistant Conservator The former is composed of the ranges of Machad and Chritur, and the latter of the Kodassen and Parambikolam ranges. The major portion of the forests in the northern division were overworked in former years and these parts are now practically left alone, except for the removal of badly grown and stunted teak trees, the extraction of fuel under the system of coppice with standard fellings, and selectron fellings in the parts which have not been previously over worked Teak, ebony (Discriptor Ebonson), and blackwood (Dalbergia latifolia) grow in all these ranges, but they are neither abundant nor of superior quality. Among exploitable trees that grow fairly in these forests we srul (Xyha dolabri formis), essu (Artocarpus ku suta), vedankorana (Bignoma xy locarpa), vengus (Pterocarpus Massupuum), and pongo (Calo-#kvllum bracteatum) It is, however, in the southern division that teak and other valuable trees flourish generously and abundenth. The Parambikolem range, including the Nelliampathia, and the Kodassen range contaming the Adampath forests, are densely covered with magnificent timber of marketable value Several teak trees have recently been felled in the former, of which the largest (but by no means the largest in the range) contained more than 400 cubic feet of wood. They are practically virgin forests covering an area of about 300 square miles, and have never before been worked for want of a suitable outlet From the Adarapallı forests timber can be transported through Travaneore with comparative facility, but no exit is possible through Cochin territory except at prohibitive cost From the Parambikolam range an outlet has, after careful investigation, been made in the shape of a trainway and timber abile, at a cost of 10 lakhs. The trainway is in three sections. The first section covers a distance of sol miles in the higher range, and is followed by a self-acting inclined trainway 5,000 feet long. Then comes the second section, 44 miles in length, at the end of which timber is sent down by means of a shde 7,000 feet long, whence it is taken over the third section, 10 miles in length, to the Chilakudi milway station

Among the minor forest products are cardamona, which

grow in several parts of Kodassen and Parambikolam, lemongrass, honey, becawax, &c., which are found in all the forests Elephants are caught in pits 28 were so caught in the three years ending 1904. The only attempt at attificial reproduction as yet made is the teak plantation at Pälapilli in the Kodassen range, which is about 800 acres in extent. The people are allowed to remove from the forests, free of all charge, beadloads of fuel, bamboos, and thorns for fencing, leaves for manure, tumber for agricultural implements, fodder, and thatching grass. The free grazing of cattle, sheep, and goats is also allowed. The receipts from the forests in 1903—4 amounted to Ra 5,84,000, compared with only Ra 58,100 in 1880—1

The only minerals worked in the State are grante, laterite, and himestone. The first two are quarried, chiefly for building purposes, in all the MAA's but Cochin, Cranganur, and Chritur. Limestone is extracted in Chritur in small quantities. There are traces of iron and mics in some parts, but they have not yet been exploited.

Cotton weaving is carried on to some extent in the Chitter and Talapulh takets. Laced and other cloths of fine texture are made out of English cotton twist, and are displacing the Timnevelly cloths so much affected by the people of this coast. Grass mats of excellent colouring and texture, made at Vadakkänchen, are in much demand. Corr (coco nut fibre) instring and rugs of good quality are made at Ernäkulem and Mattänchen.

The most important factory industry is the extraction of coco-nut oil. Seven steam mills, all in the Cochin talul and owned by native capitalists, in which about 400 hands are employed daily, are engaged in this manufacture. The out turn in 1903 was about 16,000 tons of oil, worth over 60 lakks Besides some concerns for the manufacture of ordinary pottery and pantiles, there are two tile factories at Trichur and two in the Mukundapuram talul, where tiles and bricks of the Mangalore pattern are made. A steam new mill is at work at VyPin and another near Shorantir. There is also a hydraulic press at Mattinchers for pressing corr yarn.

The chief exports are coco-nut oil, yam, rope, fibre and matting made from cost, copra, areca-nut, ginger, pepper, fish and prawns, and the chief imports are not, cotton pacce goods, new cotton and twist, metals, hardware and cutlery, and sugar. No official statistics of trade are available, but figures of the value of the chief exports and imports through British Cochin,

which are mainly the exports and imports of the Cochm State, show that the annual exports of coco nut oil are worth 93 lakhs, of yarn, &c, made of coir, 50 lakhs, and of pepper, 9 lakhs, while the imports include grain valued at 38 lakhs, and raw and manufactured cotton valued at 11 lakhs.

A branch line of railway on the metre gauge was opened in F June, 1902, from Shoranur, on the south west line of the Madras ^a Railway, to Ernäkulam, the capital of the State. The line, which is 65 miles long and cost nearly 70 lakes of rupees, is owned by the State, but is worked by the Madras Railway Company

The total length of metalled roads under maintenance is 391 miles, and of immetalled roads 56 miles. All the towns and important villages in the State, except those on the sea board, are connected by good roads, which also meet all the metalled roads in Malabar and Travancore that touch the Cochin frontier. Before the introduction of the railway, the chief means of communication, especially for goods, was the backwaters, which still attract a considerable portion of the local traffic. The length of this line of communication from Trichur to the southern end of the State is 60 miles, and the causely which branch out from it have an aggregate length of about 60 miles.

The State has a postal system or anchal of its own. There I are in all 39 post offices, or one to every 35 square miles, besides 56 letter boxes. Postage stamps of the values of 3 pies and of \$1, 1, and 2 puttant (1 puttan == 10 pies), stamped envelopes of similar denominations, and post cards and reply cards of the values of 2 and 4 pies are manufactured by the State under the supervision of the Superintendent of Stamps and Stationery

The State has latherto had the good fortune to enjoy immunity from famme. During the great famines of 1876-8 and 1897-8, there was considerable scarcity, but it was not so acute as to necessitate relief works, much less gratimous relief

Cochin is divided for administrative purposes into two advisions, the northern and southern, the head quarters of which are Trichitr and Ernäkulam. The administrative head of the division is the Peshkär, who is also the Divinict magnetiate, and whose position corresponds to that of the Collector of a British District. The northern division comprises the whole of Trichitr, Talepalla, and Chittur, and the southern division those of Kanayannitr, Cochin, Cränginum, and Mukundapuram, each of which is in charge of a taknillar, who is also a second-class magnetiate. There are three stationary

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sub magnification—at Nemmara, Kunnamkulam, and Adur. The talkular are further subdivided into forty four properties or assessed. The Diwlin is the chief minister and responsible head of the administration.

The principal sources of revenue and the amounts received from each in 1903-4 were land revenue, 7 lakhs, suit it lakhs. forests, 6 lakhs, judicial items, 3 lakhs, and excise, 2 lakhs The chief items of expenditure were forests, g lakhs, palace, 34 lakha public works, 24 lakha law and justice, 24 lakha, and the subsidy to the British Government, a lakha. Of the expenditure under 'palace,' a sum of Rs 2,40,000 represents the fixed allowances to the Rapa and the members of his family. The balance is a fluctuating item, being the mucel. largeons expenditure in connexion with the palaces. The total recessis amounted to so lakhs and the total expenditure to 289 lakhs, as compared with 145 lakhs and 133 lakhs respectively in 1880-1. The receipts and expenditure of the Cranganur #hot are not included in these figures. That tract as a separate principality under a chief who pays a tribute of Re 6,857 to Cochin. It is financially autonomous, but is in all other respects treated as an integral part of the State

The only come ever minted in the State were the single and double justians, which were of the value of 10 and 20 pies respectively. The earliest comage of these of which we have any record was that of 1783-4, when two lakks of rupees worth of them were made. Puttimer to the value of Rs 36,000, Rs. 62,000, Rs 32 000, and Rs 30,000 were comed in 1790, 1821, 1855, and 1897 respectively. Subsequently the combegun to depreciate in value, so much so that in 1900 the State felt constrained to withdraw all the justimes from circulation and abound the comes legal tender. The State has now no currency of its own, but all British Indian comes are current.

By the Interportal Convention of 1865, the State agreed to abolish the tobacco monopoly and the system of mland transit duties, to equalize the rates of customs duties at its scaports with those obtaining at the ports of British India, and to sell salt within its limits at the price ruling in the District of Malabar. In return for these concessions, the British Government guaranteed to the State a minimum customs and tobacco revenue of Rs 1,10,500. The excise revenue is derived from the sale of the monopoly to manufacture and sell country spirits, and the revenue from opinion and glays from the sale of the monopoly to vend these drugs, which are obtained by the contractor from the Madras storchouses. Tobacco can be

imported and sold by hierace holders, and the hierace fees paid by them constitute the tobacco revenue

Civil pustice is administered by six Munsife' courts, two (Dustrict courts, and a Chief Court The Munsife try all suits I of which the value does not exceed Rs 1 000 and to which the State 18 not a party The District courts hear appeals from the decisions of the Munimis and try all suits to which the State is a party or of which the value exceeds Rs 1,000 Appeals from their decisions are heard by the Chief Court, whose decision in civil cases is final. This tribunal consists of three Judges, of whom one is a European barrater. Criminal jurisdiction is exercised by the Chief Court, two Sessions courts, two Durinct magnetrates with first class powers, and ten second or third class magnetrates. The Chief Court is the highest appellate court, but sentences of death or of imprison. ment for life are subject to confirmation by the Raja Sessions courts have the same powers as the corresponding tribunals in British territory. The District magistrates have power to pass sentences of imprisonment for one year and fines up to Rs 500 the second class magnifrates, sentences of ax months' imprisonment and fines up to Rs 200, and the third class magistrates, sentences of one month's improviment and fines up to Rs 50

European British subjects are within the jurisdiction of the civil courts of the State and, in cases of contempt of the criminal courts as well. For the trial of other offences by them, the State appoints one or more European British subjects as special magnetistics for the trial of Europeans, and the Government of India gasettes them as Justices of the Peace. They have power to sentence European British subjects to three months' impresonment and a fine of Rs. 1,000. An appeal has to the European Judge of the Chief Court. The Resident is a Justice of the Peace, with the powers of a District magnetiate and Sessions Judge over such subjects. An appeal from his decisions has to the Madras High Court.

When the State finds it necessary to legislate on any subject, I the law committee, a standing committee consisting of a president and seven members appointed for a period of three president and seven members appointed for a period of three president and seven members appointed for a period of three president undergoing such revision as is found necessary by the Diwin, is submitted to the Government of Madras for approval through the British Resident. In some cases, however, bills are drafted without the intervention of the law committee. When the bill is approved by the Madras Government, it is

submitted to the Rajil, on receiving whose assent it becomes law. All enactments are called Regulations. At present forty five such Regulations are in force. They are framed on the lines of corresponding enactments in British India. In cases of emergency, the Rajil issues proclamations in his own name, which also have the force of law.

All land in Cochin was originally private property in fee sample (sources) No regular tax was levied, but non Britman land holders had to render military service when required. The ruler of the State derived his succome from crown lands, customs, monopohes, &c. These grown lands, which are now the passware of the State, increased in extent from time to time by escheat, confiscation, and purchase, so that they now comprise more than a third of the occupied area. A small assessment was imposed for the first time in 1762, probably to meet the increasing expenditure caused by wars with the neighbouring chiefs. Subsequently, there were several precement surveys. of particular areas or particular kinds of land, but the first general survey and settlement of 'dry' land were carned out m 1815 and of 'wet' land in 1821 the dry' hand was again surveyed and settled in 1843 and 1862. A systematic survey of all land in the State is now in progress, and a scheme for its resettlement is under consideration

The tenures and sub-tenures under which State and private parament leases on a nominal rest to tenancies at will. The assessments are made up of a variety of imposts and vary, on State land, from Rs 14 to R 1 for 'wet' land and from R 0-19-0 to R 0-6-10 for 'dry' land per sore. Separate taxes are collected on each pack, coco nut, and areco-nut tree. About 11,000 acres of land are man, or held on favourable tenure.

In Cochin no mimicipal councils or local boards have been established, but in all the towns, and in Pripornitium, Neumann, and the Nelhampathus, sanitary boards, financed by the State, look after local sanitation

The Public Works department is under a Chief Engineer, assisted by two divisional and an subdivisional officers. The expenditure during the ten years ending 1904 averaged 44 laking. Among the more important public buildings constructed or improved are some of the palaces at Tripunstaira, the Darbar Hall, the Drum's office, the Chief Court and the College at Ernäkulum, the public offices at Trichtir, and the Residencies at Ernäkulum and Trichtir. The only important impation works in the State are those at Mulatium and Narms on the Angunalia river.

The State maintains a small force, consisting of 309 infantry, '16 cavalry, and 4 guns. The British detachment stationed in Cochin after the treaty of 1809 was withdrawn in 1900.

The police force is under the control of a Superintendent, I and consists of 504 constables working under 7 inspectors. There are 29 police stations in the State. The Broakulam sail has accommodation for 200 prisoners. Nine subsidiary palls for short term prisoners are maintained at the head quarters of the sub magistrates.

Cochm stands at the head of all the Districts and States in I Southern India, except Madra. City, in the Interacy of its population, of whom 134 per cent (224 males and 45 females) are able to read and write. At the end of 1903-4 it contained 1,510 educational maintaines with 48,079 papels. Of these, 241 were public institutions, of which 58 were managed directly by the State, 127 were under private management but aided, and 2, though unaided, conformed to the rules of the department. They included 147 primary, 33 secondary, and 6 special schools, and one second grade college at Linakulam. Of the special schools one is a training institution, three are Sanakrit schools, and the remaining two are elementary industrial schools. In some of the private schools, which number 1,800 and contain 27,529 pupils, only the koran or the rulal ments of Sanakrit or native singing are taught.

Of the boys and guis of school going age, 57 and 22 per cent respectively were receiving instruction, but only 8 r per cent of the boys and c 94 per cent of the guis under instruction have passed the primary stage. In point of primary education, Christians stand first and Musalmans last, but in the matter of higher education Hindus take the lead. The total expenditure on education in 1903 4 was Rs 99,000, of which Rs 36,000 was derived from fees

There are 10 hospitals and 3 despensaries in the State, with accommodation for \$44 in patients. The total number of cases treated in 1903-4 was 185,000, of whom 3,700 were in patients, and the number of operations performed was 7,700. The lady doctors attached to the hospitals at Mattanchen and Trichitr treated 19,000 women and 13,000 children. The total expenditure on the department was Rs 65,000.

In 1903-4 the number of persons successfully vaccinated was 19,000, or 24 per mille of the population. Vaccination is not compulsory anywhere in the State.

[For further particulars of the State, see the Census Reports of 1891 and 1901]

Cintrin.—Head-quarters of the Mink of the same name in Cochin State, Madras, amusted in 10° 42 N and 76° 45' E, on the Anamaian river Population (1901), 8,095, of whom 96 per cent are Hindus, chiefly Brähmans and Näyars. Several of the latter are substantial landholders. Cotton weaving is carried on to some extent in the town. It contains a small palace, the offices of the takulida and the District Munsif, and a high school.

Ernākulam.—Capital of Cochin State, Madras, attrated in 9° 59' N and 76° 17 E, on a backwater, two miles cast of. and opposite to, British Cochin and the bar. Area, 5 square miles, population (1901), 21,901, consisting of 11,197 Hundre, 9.357 Christians, 938 Musalmans, and 412 Yews Ernäkulam is the terminus of the Cochin State Railway and is rapidly growing in population and importance. The chief public buildings and institutions are the Darbar Hall, where the British Rendbut pays his state visits to the Ribl. the office of the Divan and the Chief Court, the Rayle's College, contaming more than 700 students, the General Hospital with 68 beds, the Central pul with accommodation for 200 prisoners, the 9t Albert's high school managed by the Verapoh Musicon, the St. Feresa's Convent with an orphanage and mile school attached to st, the palace of the Romo-Synan Bushop, and the Commente monastery. There are also four Catholic churches in the town. Its trade, which is not very considerable, is chiefly in the hands of the Konkanis and the Jews Rendency is picture-quely intuited on an uland close to Ernakulam. It was originally a Dutch factory built in 1774, but several additions and improvements have since been made to it

Irminisheda.—Town in the Mukimdapuram tabilit of Cochin State, Madras, situated in 10° 22 N. and 76° 14′ E. Population (1901), 8,420, of whom 5,240 are Hindus and 2,656 Christians. It is the head quarters of the silicit, and contains the takishidar's office, the Munsif's court, a high school, and several palaces. The most important institution in the town is the large and well-endowed temple of kitchinimikkam, presided over by a Südra Sanyasi, who by consecration is elevated to the status of a Britishan. He is designated Thachu daya Kasmal and is nonministed by the ruler of Travancine.

Kunnamkulam.—Town m the Talapili tähuk of Cochin State, Madras, satusted in 10° 39' N and 76° 4' E. Population (1901), 7,194, of whom 63 per cent are Christians, chiefly Jacobite Synam. There are several Synam churches in Kunnamkulam and its neighbourhood, and it is also one of the centres of the Church Messonary Society's work in Cochin.

It contains a sub-magistrate's court, a lower accordary school, and a Jacobite Syrian high school, and has some trade in areca-nut and other local produce.

Mattancheri.—The commercial capital of Cochin State. Madres, and the head-quarters of the Cochin tillus, situated m 9° 57' N. and 76° 15' E., on the backwater, opposite to Emakulam and adjoining the British town of Cochin Area, #4 square miles; population (1901), 20,061, of whom 9,466 are Hindus, 5,607 Christians, 4,489 Musalmins, and 474 Jews. It is the centre of a considerable export and import trade, which is almost entirely in the hands of Banuls and Cutchi Memons from the Bombay Presidency. There are several steam oil mills in the neighbourhood, and a hydraulic. press in the centre of the town. Mattanchen is said to have been formerly the capital of the State, and contains a spacious old palace of quaint Dutch design, where the Ragis of Cochin. are still installed. Historically the most interesting part of the place is what is known as the Jews' Town, which is exclusively inhabited by the White and Black Jews. They settled here after their expulsion from Cringantir by the Portuguese in the auxteenth century, and formed a prosperous colony. But of late years they have been declining both in numbers and in affluence. They have three old synagogues in the town Among modern institutions of note are the large and nichly endowed Konkani temple of Tirumala Desassam, and the women and children's hospital, which contains accommodation for so in patients

Melliampathia.—Range of hills in Cochin State, Madras, forming a section of the Western Chits. They he so miles to the south of Pilghat, which is the nearest railway station, between 10° 26′ and 10° 42′ N and 76° 31′ and 76° 52′ B.

The range varies in height from 1,500 to 5,000 feet above the sea, and consists of a succession of ridges cut off from one another by valleys containing dark evergreen forests. In the centre of the range is an extensive platean, the average elevation of which is over 3,000 feet. The highest peak in the range is Nellikkotta or Padagin, 5,200 feet above sea-level. Kanmalagopuram, Vellächmudi, Valryavana Ridge, Myknmudi, and Valavachan are other peaks, each over 4,000 feet in height. The climate of the range is cool and pleasant during the greater part of the year, but is feverish in March, April, and May. The monsoon rains are heavy, the average annual fall being 155 inches. In 1903 the thermometer ranged from 60° in December to 84° in April, the mean temperature being 72°.

Throughout the Nelhampathia and the adjoining country of Parambisolam, the hills are densely covered with teak and other valuable trees which grow in this generous soil to very large dunerations. Until recently, these forests had never been worked for want of a suntable outlet to the plants tramway and timber slide have now, however, been constructed, which will render accessible the valuable produce of this range On the plateau above referred to, land was opened out for coffee growing in 1864. There are now eighteen estates, of which seventeen are owned by Europeans. The total area assumed for coffee cultivation is 8,500 acres, of which 3,177 acres are under mature plants. The yield in 1903-4 was 2,885 cwt, or an average of 91 lb per acre of mature plants From 800 to 1,000 labourers are employed on the plantations, and the annual court rent amounts to Rs 12,000. The State has constructed a givet road to the estates, the length of which from the foot of the gold to the plateau is an miles and the steepest gradient 1 m 6. About 15 miles of road on the platean connect the estates with one another. The State maintains a dispensary and a police station. The population of the range is 2,018, of a hom 210 are Kadana, the only rangle folk found in these hills

Tattamangalam.—Town in the Chitter Blak of Cochin State, Madras, satuated in 10° 41' N and 76° 42' E. Area, 5½ square inles, population (1901), 6,222, of whom 79 per cent are Hindus and 20 per cent Musalmans. It is a place of some trade, which is chiefly in the hands of the Musalmans.

Trachur (Trusspaperur) -Town in the taluk of the same name, Cochan State, Madras, satuated in 10° 32' N and 76° 13' E. Area, 34 square nules, population (1901), 15,585, of whom as many as 6,663 are Christians. Trichitr is considered the oldest town on the west coast, and its foundation is attributed by local tradition to Parasu Rama. It was the scene of many historical events, of which the more recent were its capture and occupation by the Zamorin in 1760, by Haidar's army under Sardar Khim in 1776, and by Tipu in 1789 town and the palace were fortified in 1774 with mild walls and trenches, but these defences are now to runn. Suitated at the head of the backwater communication, and possessing a railway station, Trichter is a centre of considerable trade, which is cinefly in the hands of native Christians and Britisans from Transvelly The former are an exterprising and prosperous contaminty, the members of which own, among other concerns, four tile factories, a tannery, and a calico weaving establish

The chief buildings and matitotions are the Palace, the Rendency, the offices of the Chief Engineer, the Conservator of forests, and the Supermtendent of police, the courts of the Dustrict Judge and the Dustrict magustrate, the civil hospital, three high schools for boys, and three lower secondary achools for gurs. There are three important churches, one for the Chaldean Synans, another for the Romo Synans, and the third for the Protestants. The most interesting and noteworthy institutions of the town are the temple of Vada kumathan, which is considered the oldest on the west coast, and the three Brahman maths, or relations houses, which are said to have been founded by three of Sankariicharya's pupals Situated on an emmence, the temple contains several ahrmes and a surrounded by a high and thick mesonry wall, with four massive gopurum or towers. Its income exceeds Rs 30,000 Det Autom The maths are also well endowed, in one of them Nambuda Brahmans are fed gratuatously and taught the Vedas.

Tripumitura —Town in the Kanayannur take of Cochin State, Madras, situated in 9° 57′ N and 76° 20′ E, 8 miles cast of British Cochin and 5 miles from Ernäkulari. Population (1901), about 3,000. Its importance consists in its being the residence of the members of the ruling family, for whom the State has built several palaces. The present Raja usually resides in a handsome palace, picturesquely situated on a hill 14 miles to the east of the town.

Vypin (1991), 'a deposit')—Island in the Cochin tabul of Cochin State, Madras, situated between 9° 58' and 10° 11' N and 76° 10' and 76° 14' E. It lies between the backwater on the cast and the Arabian Sea on the west, and the Cranganur and Cochin bars on the north and the south. It is 144 miles long with a mean breadth of 14 miles. The southern extremity, 234 acres in extent, is British territory, and its northern end, 14 square miles in area, belongs to the State of Travancore. The total area of the island, including these portions, is a little over 224 square miles, of which about 7 square miles are under 'net' cultivation and 11 square miles consist of coco-nut plantations. The population of the Cochin portion of the island is (1901) 40,365 namely, Hindua, 25,252, Christians, 13,554, and Musalmans, 1,526

The island has been formed by the deposits of silt brought down by the tivers discharging into the backwater and the sea. The date of its appearance, or, more probably, of the peopling of the place, is preserved in old Cochin deeds, which are often dated in the fusiv very (hiterally, 'new deposit') era, commencing and 1341. As the soil is nichly overland with alluvium, the coro-nut palm grows most luxurantly, and during the years in which moresoon mundations are normal the 'wet' lands yield a rich harvest

The paland has been the scene of stiming historical events Many a battle was fought here between the forces of the Zamorin of Cahcut and the Rata of Cochin. In 1503 the Zamoren was signally defeated by Cochin with the assistance of the Portuguese. During the Dutch period, the island was practically in the hands of that nation for several years, and throughout the Travancore wars with Mysore it was a disputed point. In the Travancore portion the remains of the Dutch fort of Ayakotta still exist. There are several churches on it, built in the time of the Postuguese and the Dutch, while the Syrian Church at Namidial is said to have been founded long before that period. In Pallipuram, a village in the island, is a Lammetto managed by the Collector of Malabar The place was a Jesust college during the Portuguese period. The Dutch (1664-1705) turned at into a Lazarbaus, and under one of the articles of the surrender of Cochm (1795) the Madray Government is bound to maintain it

PUDUKKOTTAI STATE

Pudukkottan State.—The third most important of the 1 five Native States in political relations with the Government of Madras. It lies on the eaviern side of the Presidency between 10° 7' and 10° 44' N and 78° 25' and 79° 12' E., and is bounded on the north and west by Trichinopoly District, the Collector of which is at affect Political Agent for the State, on the south by Madura, and on the east by Tanjore. It comprises an area of 1,100 square miles and measures 50 miles from east to west and 40 miles from north to south, and is called after its chief town, the name meaning 'new fort'. The State was formerly known as the Tondaman's country, from the family name of the ruling chief

It resembles in its general physical aspects the upland parts of the east coast of the Prendency, and consists for the most part of an undulating plan of barren or sparsely cultivated land interspersed with small but picturesque rocky hills, some of which are crowned by ancient forts and temples. These hills are most numerous in the south west portion, where the country is extremely wild and rugged, and here also are the thickest forests. In these are found antelope, spotted deer, wild hog, and some wild cattle, which appear to have originally been village cattle of the ordinary type but are now larger and stronger than the usual plough bullocks. Four small rivers drain the country from west to east

The chimate resembles that of the surrounding Districts and is fairly bealthy. Femperatures have not been officially recorded, but Pudukkottan is probably cooler than Trichinopoly in the hot season, and it is more open and nearer the sea Malaria is rare. Guinea worm used to be very common, but is now less prevalent. The annual rainfall averages 35 inches

During the last quarter of a century there have been three cyclones, which occurred in 1884, 1890, and 1893, all during the north east moosoon. In the first two the rainfall amounted to about 7½ inches, and in the last it was from 12 to 27 inches in different parts of the State, but no senous damage occurred

In early times the northern part of the present Pudukkottar. State belonged to the Chola kings, whose capital was at Uranyur near Trichmopoly, and the southern part to the

Pannya kings of Madura. About the middle of the sixteenth century Madura passed to the Naik dynasty, and its kings acquired the whole of the territory which makes up the present State, ruling it through a polygier or feudatory chief. In the seventeenth century the country came into the possession of the Setupati of Raman, who had been a vassal of the Naiks but had thrown off his allegance. It was temporarily recovered about 1664 by Chokkanatha, the Naik ruler of Trichinopoly, but soon afterwards came again into the possession of Ramand, and about 1680 the Setupati, Raghunatha Kilavan, appointed Raghunatha Toudanan as chief of the district of Pudukkottai. This latter is said to have been the brother of a girl of the Kallan caste whom the Ramand chief had marmed. From him the present Rama trace their descent

The relations of the English with the State began during the Carnatic wars of the eighteenth century. During the siege of Trichinopoly by the French in 1752 and 1753 the Tondi main of the time did good service to the Company's cause by sending them provisions, although his own country was on at least one occasion rayaged as a consequence of his fidelity to the English. In 1756 he sent some of his troops to assist Muhammad Yusuf, the Company's sepoy commandant, m settling the Madura and Tinnevelly countries. Subsequently, he was of much service in the wars with Haidar Ah, and in the operations against the rebellious poligiers of Sivaganga and Panjalaveurichi in Madura and Tinnevelly Districts respectively, capturing the latter and handing him over to the English. In 1803 he solicited, as a reward for his services, the favourable consideration of his claim to the fort and district of Kilanelli, near Arantangi in the south of Tamore He based his claim on a grant made by Prattip Singh, Raja of Tanjore, and on engagements subsequently entered into by Colonel Braithwaite, Sir Eyre Coote, and Lord Macartney, on the faith of which he had retaken the fort from Hardar All Madras Government, after a very complimentary review of his services, complied with his request, and the grant was confirmed m 1806 by the Court of Directors, subject to the condition that the district should not be alienated, and that it should revert to the British Government upon satisfactory proof that the inhabitants were subjected to any oppressive system of management. The grant was further made subject to the yearly indute of an elephant, but this was never musted upon, and m 1826 was formally remitted. Beyond this grant, there is no treaty or arrangement with the Raya. A assess permitting adoption in accordance with Hindu law was conferred on him in 186s. At first the political charge of the State was entrusted to the Rendent of Tanjore. When this office was abolished in 1841, the duty was transferred to the Collector of Madura. From 1865 to 1874 the Political Agent was the Collector of Tanjore, and from 1874 up to the present time the Collector of Trichinopoly has carried on the duties of the post

The present Raja, His Highness Raja Sri Martanda Bhairava. Tondiman Bahadur, who was born on November 27, 1875, succeeded his grandfather in 1886 as a minor. He is the grandson of Raja Ramachandra Tondiman Bahadur (fifth in descent from Raghunatha) by his eldest daughter, and was adopted by the late Raja in 1877. During his minority the late Str A Seshayya Sastri, K C S I, was Diwan Regent. The Raja, who had been for some years under the private tintion of an Ringlish gentleman, was installed on November 27, 1894. He has a privy purse of Rs 1,24,000 a year, and is entitled to a value of eleven guns.

No systematic examination of the archaeological remains in I the State has been made. Near Nartamalas, in a cluster of low 1. rocky hills o miles north west of Pudukkottai town and to the west of the road from Inchmopoly, are some ancient rock cuttings consisting of caves with pullar supports to the roof and carvings, which are probably of Jain origin. The most interesting antiquities so far discovered consist of coms. Roman surve have been found, and also some curious native copper come which are believed to be about a hundred years old. The latter are lumps of copper without edgings, but the designs on some of them are well executed. The come being very small the legends are imperfect, but they are believed to have been struck by Raja Vijaya Raghunitha (1807-1825) Some currous old chain armour has been found near Tirtuna. vam. The inscriptions on some of the temples are believed to be of interest, but have not been decuphered

The State contains one town, its capital Publicatorral, the inhabitants of which numbered 20,347 m 1901, and 377 villages. The largest of the villages are Tirumayam and Karam balands, the population of each of which is over 3,500. The population of the State was 316,695 in 1871, 302,127 m 1881 (the decline being due to the great famine of 1876-8), 373,096 in 1891, and 380,440 in 1901. The density in 1901 was 346 persons per square mile, which is considerably less than in the neighbouring Districts of Tanjore and Trichinopoly, but slightly above the density of Madum. In the same year

Hindus numbered 453,723, or 93 per cent of the total, Muhammadans 12,268, or 3-2 per cent, and Christians 14,449, or 3-8 per cent. The most numerous caste among the Hindus in the Valaryans (52,890), formerly shikaris, but now largely agriculturate, next come the Kallans (47,462), the Parayans (32,550), and the Pallans (27,581), who are chiefly cultivators and farm labourers, and then the Idaryans (26,479), who are shepherds. As elsewhere in Southern Incha, the enormous majority of the people subject by the land

The Christian mismons working in the State are the Roman Catholic (Jesuit and Goanese), and the Protestant (Leiping Lutheran, and Wesleyan). As ir, a willage 12 miles to the couth of Trichmopoly, 14 the centre of the Catholic mismons. Of the Christians in the State in 1901, 14,406 were natives, and of these 14,051 were Roman Catholics, 233 Lutherans, and 17 Methodists.

Vital statistics are registered by the village officers, as in British territory. The recorded birth and death rates in 1903-4 were 9.28 and 8.75 respectively per mille of the population. These figures abow that registration is by no means complete, and steps are being taken to improve matters. Regulation I of 1903 has made registration compulsory in Pudukkottan town, and Regulation II of the same year gives the Darbir power to make it compulsory in rural tracts also

The general agricultural conditions of the State, the soils and seasons and the methods of cultivation, resemble those in the adjoining areas in Trichmopoly and Maduia. Out of the total area of 1,100 aquare miles or 704,000 acres, 271,870 acres are held on the usual systemas or swim (favourable rate) tentires, 157,417 scres are occupied by sagars (estates), or relate to faller the tenure of which has been inquired into but m respect of which title-deeds have not yet been assued, 50,070 acres represent unoccurred lands fit for cultivation. and the rest is waste, such as hills, forest, village-sites, &c., which is not fit for cultivation. Among the lands held on seems and other favourable tenures is the Manovarti sagir, which is held by the Righ himself. This class of land also includes many villages and minor solins granted at lement rates of assessment by former Rajas to Brillmans and the old militia. An inquiry into the terms on which these are held has recently been conducted and is now practically complete. Of the area occupied on the ryadadri or 'minor' salar tenures, all but 118 acres pays money rents. The remainder is held on what is called the amine system, under which the Durbir takes

as the land revenue one half of the net produce on 'wet' lands and one third of that on 'dry' lands, after first deducting the *executatives* or fees due to village officers and servants. The reasons which have caused such a large area as 50,070 acres of arable land to remain unoccupied are being investigated.

The principal food crops are noe, caude (Persistent typhes deem), rdgs (Element corecand), chalan (Sorghum vulgare), and varegu (Paspakent screbiculation). Other important crops are home grain, ground nuts (Arachus hypegase), and black grain. The proportion of the cultivated area to the land available for cultivation has gradually increased during the past eight years from 66 to 84 per cent. The extent of 'wet' (impated) land under occupation in 1903-4 was 108,000 acres and that of 'dry' (unarrigated) land, 170,500 acres. The impation sources of the State are 4 rivers, 62 dams, 7,356 artificial reservoirs, 190 channels, 3,927 single streams, and 18,452 wells. Of these, the reservoirs are the most important. The country is dotted with them and some are of considerable size.

The forests contain only small timber. No law researching I forests has been enacted, but axity blocks of rougle have been marked out and 'reserved' They cover about one-seventh of the area of the State, and some are reserved for the Rapa to shoot over. Wild cattle are occasionally caught in them and broken in and used as draught animals, as they are remarkable for their strength and endurance. Their capture has lately. however, been prohibited. Several plantations have been made near the streams and revers, and these contain \$45,000 castiarins. trees, the wood of which makes excellent fuel. The principal sources of forest revenue are the sale of fuel and minor produce such as gome, tunning barks, &c., the lease of the right to collect leaves for manure, tanning bark, Nice possess, and red other, seigmorage fees on granite and laterite removed, homos fees for stone-quarrying, stone-mesons' homoos, and a tra. on brick moulds. The total forest revenue in 1903-4 amounted to RR 55,000

Minerals are few. Iron ore is found in places but is not mined. Red other is procurable in abundance and is extracted in large quantities. Granite and latente are used for building. The latente is a very hard variety, and the old fort of Kilvellikhotts: is built entirely of it

There are no large industries in the State. Silk fabrics are made at Pudukkottai town, the number of silk weavers' houses being about soo. Cotton stuffs are woven there and at Karam bakudi, and black woollen blankets at Sellukudi. Rush mats

and bell metal vessels are made in and about Karambakudi. These are much in demand both within and outside the State Bangles are made at Vaittir. Perfumes are manufactured at Pudukkottas and exported to some extent, being much appreciated among Hindus.

The other chief articles of export are ground nuts, Nex ventor seeds, softwar bark used for taming leather, and acade bark employed in distillenes. The chief imports are salt, noc, European piece-goods, and tobacco. The Chettis conduct the greater part of the trade, and there are also a considerable number of Labbara, an enterprising body of mixed Musaiman descent.

The State is well provided with roads, which are kept in 1 good condition Pudukkotta town is connected with Trichinopoly by two routes, one running direct through Kirantir and the other passing through Huppfir and Virthmales on the Madum trunk road. It is also connected by road with Tanjore. Budahir, Gandarvakottas, Pudukkottas, and Arantings in Tanjore District, and with Mehir in Madura. There are in addition several smaller lines within the State. The total length of all the roads is are miles, and the outlay on them in 1903-4 was Rs 45,000 Light spring carts pulled by pomes (known as jathar) ply from Tanjore and Trichmopoly to Pudukkottai, the distances being 36 and 33 miles respectively. There is no railway in the State, but the Darbar has been asked whether nt is prepared to finance that portion of a line from Trichinopely to Pudnikkotta town which would run through the territory of the Rapi, and another proposal contemplates the construction of a line from Madura District, through this State, to Tanjore The chief town and seven other places are connected with Trichinopoly by telegraph. There are twentycashs post offices. Both the post and telegraph offices are under the management of the Government of India, Postal and Telegraph departments

The State suffered severely in the famine of 1876-8, when relief works were opened and gratimous relief was distributed. The country is entirely dependent upon timely local ramfall, but actual famines are of rare occurrence. In 1894-3, owing to the failure of ram in both monscome, distress was falt in the northern part of it. The Rajit visited the affected parts, and ordered the suspension of the collection of the land revenue and the opening of relief works.

The administration of the State is in the hands of a council, conditing of the Rips, the Diwin (formerly called the Sukole),

and a Councilor Orders are passed and correspondence carried on m the name of the Diwan m Council. The State is guided in all important matters by the advice and counsel of the British Government, represented by the Pohical Agent, the Collector of Trichinopoly. Since 1902, an assembly of representatives has been constituted on the lines of the Mysore Assembly. It is composed of 30 persons, chosen by the State as representatives of the various classes of the community, nominations being made by the heads of departments and by public institutions. The assembly meets once a year. The results of the preceding year's administration and the budget for the ensuing year are placed before it, and its members are allowed the privilege of interpellation on all matters connected with the administration.

The immediate control of the revenue and magisterial departments is in the hands of the Diwan Peehkar, who is also the chief magistrate and is invested with first class magisterial powers. The salt, excise, and forest departments are under the control of the Superintendent of salt, ablass, and separate revenue. The Superintendent of police in the Trichinopoly District is an affice Superintendent of the force within the State. The country is divided for administrative purposes into three tabular. Kolattur, the head quarters of which is at Kiraniar, and Alanguch and Tirumayam, the head-quarters of which are the places after which they are named. In each of these is stationed a tabulater, who is responsible for land revenue matters, an inspector of salt, ablass, and separate revenue, a sub magistrate, and an inspector of police.

Legislative measures are enacted by the Drain in Council, and, as in the case of the other Native States subject to the Madras Government, are forwarded to that Government for approval before being passed into law

Civil justice is administered by the Chief Court at Puduk kottan, which consists of three judges and a registrar who has Small Cause jurisdiction. There are also ten Small Cause Courts for rural areas, sub-registrars of assutances being invested with the powers of Small Cause judges to about the same extent as Village Munsifs in British territory. All appeals are disposed of by the Chief Court.

The criminal courts are the Sessions court, presided over by the judges of the Chief Court siting singly by turns, and the courts of the chief magistrate, who has first class powers, the special magistrate, Pudukkottai, with first or second-class powers, the town second-class magistrate, three tillule magistraites and three stationary magnetrates with second class powers, and an auth-registrars invested with third class powers. All appeals lie to the Chief Court. Senous offences, such as discorry or robbery, are rare, the greater part of the crime consisting of house-breaking and thefts. Sentences of rigorous improconnect for life and forfesture of property, the former of which, under the law of the State, takes the place of capital punishment, are subject to the confirmation of the Rapit. The criminal courts have no jurisdiction over European Buttah subjects, and any offenders of this class are handed over for trial to the Political Agent, who is Justice of the Peace for the State. The receipts under Law and Justice amounted in 1903-4 to Ra 61,000, and the charges to Ra 40,000.

The Regulation of the State dealing with the registration of assurances differs but little from the Indian Regulation Act, the chief point of divergence being that under the former registration is compulsory in the case of several kinds of documents regarding which it is optional under the latter. There are twelve registry offices, including that of the head of the department, who is called the Registrar of Assurances. The cost of the department is Rs. 18,000

The total revenue of the State amounted in 1903-4 to Rs 11,28,000, and the total expenditure to Rs 10,21,000. The cinef items are as follows —

Rampia.		Separature,	
Land sweame Sult Except on spirits and drugs	£4,000	Palage Administration Religious and churchile andownesss	Be 2,49,000 1,85,000
Former Assessed texts Registration Total	\$5,000 7,400 39,000	Paling works Total	7,46,000

The ordinary currency of the State is the British Indian comage, but a small round copper coin, worth one twentieth of an anna and called annual little, is also current. This is minited for the State, and beens on one aids the word cappe ("victory") in Telugu, and on the other a representation of the Raja's titlelary goddess Bruhadambā. This deity is the consort of the god Gokomasvām, and a temple to them stands in Tringo-kaman, a suburb of Padakkottai town. To this the Raja's are wont to go on occasions of public worship

The land revenue consists of the assessment on land held on I the *systematri* tenure, quit-rents on certain classes of *indens*, a small tax on *fagira*, and the value of the State's share to the produce of land held under the *small* system above referred to. The rates of assessment on 'wet' land on *systematri* tenure vary from Rs. 4 to Rs. 10 per acre, and those on 'dry' land from 6½ sames to Rs. 1-8-0. There are also special rates for 'dry' land on which rice is grown.

The history of the land revenue possesses some interest. In 1878, when Mr (afterwards Sir) A Seshayya Sastri became Diwin, about 16,000 acres were held on a termre under which the cultivator and the State shared the produce. The Diwin substituted for the State's share a money assessment based upon the average out-turn for the five years from 1871 to 1875 and the average selling price of grain during those years. No remissions of the assessment so arrived at were to be allowed on account of bad seasons. The village accountants' fees (formerly payable in kind) were commuted into a cess of 6 pies per rupes of assessment.

It had long been customary to give a paper to each ryot every year, which specified the fields which happened to be in his possession and were to be cultivated by him in that year. The ryots were not, however, considered to possess any occupancy rights in their land or any power of transfer. Their status has now been changed from that of tenants-at-will into that of proprietors; and owners of land are now able to most-gage, transfer, or sell it, proceedings which would have been word at law under the previous system. These reforms, however, quickly showed very clearly the necessity for a regular survey and settlement. The cadastral survey of the State is now in progress. On its completion, the settlement will be taken in hand.

Revenue used to be derived from the earth-salt manufactured from saline soils as a State monopoly, but m 1887 the Madras Government arranged with the Darbär for the suppression of this manufacture, and entered into a convention (still in force) by which it agreed to pay the Darbär Rs 38,000 annually as compensation, imposing at the same time the obligation of maintaining a preventive staff costing about Rs. 10,000.

The system of collection of the excise revenue is almost the same as that in the Madras Presidency. A State distillery is maintained for the manufacture of country sparst, and rems are collected on heences for retail shops and on palmtrees permitted to be tapped for their joice. Still-bead duty is collected on the higher named from the distillery at tates nearly equal to those obtaining in the Madras Presidency. There are 108 areack (spirit) and 233 toddy (fermented palminuce) shops, one foreign higher shop, and also one shop in the chief town for the sale of optim and ginys. The cost of the excuse densitisent is Rs. 8,000.

Under the head of amound taxes among the sources of revenue given above is included the sessions, which consists of a tax on houses and trades. Terraced houses are assessed at R. 1 per annum, tiled houses at 8 annus, thatched houses at 4 annus, and huts at 6 pees. Shops and hazars are charged at the rate of Rs. 3, a, 1, and 8 annus, according to their importance. Silk looms pay R 1 each, other looms 12 annus, and oil-mills Rs 2 per annum.

Tolls are levied in Pudukkuttai town and at eight other gates. The proceeds amount to Rs 30,000. A revenue of about Rs. 20,000 is derived from market fees, cart-stand fees, and rent of public buildings. There is no stamp law in the State. Court fees are levied in cash.

The Public Works department is under the control of an Engineer, aided by two Assistant Engineers and a subordinate staff. The care of the State buildings and the maintenance and construction of angation works form the principal part of its business.

The military force now maintained connects of 22 officers, 90 privates (of whom 6 are guaners), and 16 troopers, who are known as the Raja's bodyguard and are under the immediate control of an officer called the commandant

The strength of the police loves is one Chief Inspector, 5 inspectors, 28 head constables, and 229 constables. There are 23 police stations. As has already been mentioned, the force is in charge of the District Superintendent of Trickinopoly. The annual cost of the department is Ru. 32,000.

The seven prisons include the Central jail at Pudnikkottai sown and six subsidiary jails. The convicts in the former are employed in making wicker baskets, ropes, cloths, bell-metal vessels, and not bags, in gardening, and in pressing gangelly oil. They are also employed in the conservancy of the town. The value of the labour done both within and without the jail by them in 1903-4 was Rs. 2,200. There were 50 convicts in juil at the end of 1903-4 (8 of whom were life-convicts) and 15 under-trial prisoners, besides 5 civil prisoners, all of whom were limited. The cellular system is not in force in the jail, but

arrangements have been made to introduce it. The cost of the department is about Ra 7,000

According to the Census of 1001 Pudukkettsu, if it had been I a British District, would have taken the fifth place among the twenty two Dutnets of the Madras Presidency as regards the education of its male population, but would have ranked last 24 regards the education of sts girls, the actual percentages of the literate of each sex to the total population of that sex being 15 6 and 0.4 respectively. At the end of 1903 4 there were 35 State, 146 aided, and 96 unaided educational matitotions Of these, 253 were primary, 13 secondary, and 6 special schools Altogether, 8,307 boys and 846 girls were under instruction Pudukkotta town possesses a second grade college, teaching up to the FA examination, which at the close of 1903 4 contained 36 students in the college department. Provision has been made in the institution for the religious instruction of Hindu boys, and physical development also receives special attention. A school called the Vain Vilam Veda Sastra. Pathella teaches Sanskrit on Oriental lines The staff consults of eight pandits, three for the Vedan, one each for Tarka (logic) and Vedanta (metaphysics), one for Mimemas (a school of philosophy), and two for Käsya (poetry) The hibrary contains over a thousand volumes on paper and cospos (palm leaves) About half the students get daily allowances in kind from the assegnments made to reheaves and charitable institutions. The town State girls' school teaches up to the lower secondary standard There is an industrial school at Pudukkottai under the control of the Engineer. The State also endeavours to spread general elementary education. Girls of all castes and Muhammadans and Panchama boys are taught free. In the lower classes non Brahman Handus form the majority of the Of the gurls, the most numerous are those of the Muhammadan community In 1903-4 the recents from fees, &c, amounted to Rs 14,000 and the gross expenditure was Ra 40,000, the net cost to the State being Ra 26,000. Of the total outlay, Rs 15,000 was devoted to primary education. The control of the Educational department is vested in the Principal of the College, Mr Radhakruhna Ayyar, a gentleman known even in Europe for his works on anthmetic

Pudukkotta: town possesses a well equipped hospital, with all beds for males and 4 for females, and also a dispensity for women and children, while 7 other dispensions have been opened in the rural parts. The dispension for women and children is in charge of a lady apothecary, and the other institutions are under the control of the chief medical and samilary officer. In 1903-4, 440 m patients and 85,700 out patients were treated, and the number of operations performed was 1,800.

The vaccination staff, comusting of one inspector and ten vaccinators, works under the supervision of the chief medical and sanitary officer. Twenty are per mille of the population were successfully vaccinated in 1903-4. Vaccination is compulsory only in Padukkottai town.

The conservancy of this town is controlled by a samtary board, with a full time secretary as its chief executive officer. Conservancy in other parts is attended to by the revenue staff, acting upon the advice and suggestions of the cinef medical and samitary officer. The total annual cost of the Medical department, including vaccination, is about Rs. 26,000.

[For further particulars of the State see its Annual Administration Reports and the *Trackingtoly District Manual* (1878)]

Pedukkottas Towa.—Capital of the State of Pudukkottas, Madnes, attended in 10° 23' N and 78° 49' E, 53 miles by road from Tuchanopoly Population in 1901, 20,347, compared with 16,885 m 1891 and 15,384 in 1881 number 18,450. Musalmans, 1344, and Christians, 544 an unusually clean, any and well built town, possessing many fine public buildings. At the suggestion of Sir W. Blackburne. the Political Agent, Raja Vijaya Raghunatha Rija Bahadur, who died in 1825, pailed down the whole of the old town, which was built with narrow and tortnous lanes, and rebuilt it m regular streets, a large number of the houses being tiled The place was further improved in the time of Sir A. Seshayya. Shetri, KCSI, who was Dream Regent for some years when the present Raja was a minor. The fine public buildings outside the town were erected by him. The chief of these are the new palace, the public offices, the hospital, the jul, the college, the Rendency, and the summer villa. The old palace, which contains the Rays's Darbir morn, is in the heart of the town This building is not used except on state occasions and is somewhat out of repair. Two large drinking water tanks in the town (Palleyankulam and Pudukulam) and several others were also improved at considerable cost, but with the most beneficial results, during Sir A. Sosbayya Sastri's admirastra. Particulars of the medical and educational maintaitions m the town and other matters will be found in the article on the State

BANGANAPALLE STATE

Banganapalle.—One of the five Native States in political F relations with the Madras Government, the Political Agent 6 being the Collector of Kurnool It has between 15° 3' and h 15° s9' N. and 77° 59' and 78° s2' E, on the table land of the " Southern Deccan within Kumool District, at a heatht of about 800 feet above sea level. It is bounded on the north by the Ramallakota and Nandyal *tilbuls* of that District, on the cast and south by Nandyll and Koulkantla, and on the west by Pattikonda and Kollkuntia. The total area is 255 square miles The State commute of two detached portions. The main part is a straggling area beginning at the Rampur pass over the Erramala hills on the west and extending eastwards to Banganapalle town, and thence southwards almost parallel to the Kundern river through a tract of rich black cotton soil. detached portion consists of three hill villages, comprising an area of about so square miles surrounded by part of the Korikuntle take. Except the Erramales, which skirt the country on the west, two long spurs running parallel to one another m the western portion and enclosing the valley of the Juneru, there are no hills of importance in the State. Even these are low and tame in appearance. The country is generally flat, but the western arm, extending from the Rampur pass to Banganapalle town, is hilly. It is also generally bare except in the west and round Banganapalle, where the Nawib has planted groves of trees. The surface is covered with black cotton soil m the south, and m the other parts with red gravelly earth, sometimes very stony. The whole country slopes eastward to the Kunderu, and is well dusmed by that river and the Jurreru, which are the chief streams. The Juneru uses in the Erramake, flows past Banganapalle town, and enters the Kunderu after a course of 45 miles. A small stream called the Palero crosses the southern limb of the territory. Only the Jureau, which is perennual, is useful for irrigation.

The geology of Banganapalle is simple. The lowest rocks are of the Cuddapah formation, and occupy the bottom of the Jurieru valley between Banganapalle town westward and Pasapula. They consist chiefly of argillites, with intercalated

trap flows of the Cheyylir group. Resting on them is a strip of conglomerate, west of the town, which has been mined for diamonds for many generations. There are no forests yielding revenue.

The larger game includes the leopard, hyens, well, antelope, and wild hog, and the feathered game, partialge, quail, and pingle-fowl. The streams abound in fish of inferior kinds

The charate is hot, but healthier than the surrounding portions of Kumool District. November, December, and Jamusy are pleasantly cool and dry, February, March, April, and May are increasingly hot; in June, July, August, and September the south west monsoon brings heavy min and high winds. The annual ramfall averages about 30 inches. Fever is eridenic, but is nowhere of a severe type.

The oldest extant taile-deed of the family, which is dated in 1761, records the fact that the Nusim in that year appointed one Husain Alt Khān as Kiladār (commandant) and Faujdār (magistrate) of Banganapalle. This document refers to the removal of one Muhammad Beg Khān, apparently from the post given to Husain Alt Khān; but the nature of that transaction is not indicated. It would seem, however, from the manuscript records of the family that Muhammad Beg Khān was the great-grandfather of Husain Alt Khān, and the adopted son of a person of the same name appointed Kiladār of Banganapalie by the Sultān of Bijāpur in the lest half of the seventeenth century. A document still preserved at Banganapalle bears the seal of Muhammad Beg Khān and the date 1131 Hijia (A.B. 1718—19).

Within a few years the country fell under the dominion of Mysore. A translation of a letter of confamation, dated 1783, at the beginning of Tipti's reign, is preserved in the archives of the Madras Government. In this letter Tipu refers to the assiduity of the recently deceased Husein Ali Khan in the Surkar affairs, and confers the sager of Banganapalle on his son Ghulam Ali Khān. As a matter of fact, it would appear that, notwithstanding this grant, Tipli at once resumed the sagir, and expelled Ghulitza Alt Khan Letters written by Tupti in the same year agramon Ghulitm Alt Khim to his presence and refine to accept his excuses for not coming. Another, dated 1790, to the Kiladër of Banganapalle, is addressed to one Yasul. According to the traditions of the family, Tipu's deputy was defeated in a patched battle by Ghulling Ali Khiin and his uncle Asad Ali Khin about seven years after Ghullim Ali Khān's expulsion. A document is extent perporting to be an

order of the Nixim, dated 1790, conferring Banganapalle on Asad Ah Khan and Ghulim Ah Khān. It is, however, of doubtful authenticity. These two persons are referred to an joint jāgurāšur in the correspondence of the year 1800. The present family traces ats descent from Ghulim Ah Khan, who survived his uncle. In 1800, when the Nixim handed over Kuinool and the other China Districtes to the Bast Inche Company in exchange for a subadiary force to be stationed in his territories, he transferred to the Madras Government his control over Banganapalle. At the same time he stipulated that, as it was the sole means of subsistence of a numerous family, the jagar should be continued to Asad Alt Khān and Ghulim Ah Khān, and this was agreed to by the British representative

Whatever had been the precise relations of the jaginlars to the Court of Hyderabad, the Braush at first neither levied tribute from them nor, as far as can be ascertamed, exercised any authority over them. Indeed the pagerdar as late as 1821. seemed to consider himself still dependent on the Nixim usually rended at Hyderabad, and civil and criminal justice were nearly at a stand. Internal government now went from bad to worse, and at times shameful disorder prevailed. Finally (1831) the fagwaler was driven out of the country and took rafuge in British territory. These disturbances induced the British Government to resume the pager in 1832. The Govern ment did not at this time consider that they were pledged to its continuance, and a proclamation notifying the resumption was terned in 1835. From 1835 to 1848 the State was accord ingly administered by the Madras Government. The stipulation of the Nixim for the continuance of the sager was, however, brought to notice in 1837, and the Court of Directors decided m the following year that the Nusim's supulation entitled the holder of the estate to be treated as an hereditary /agtraire, that the resumption must be cancelled, and the segar given back as soon as it was free from debt. Accordingly in 1848 it was restored to the head of the family, Ghulam Mahammad Ah, grandson of Ghulitm Alt Khiin; and, as had been the case before 1831, he was permitted to enjoy the sages without pay ment of tribute and to administer its civil and criminal justice himself with certain restrictions. A sense conferring these powers was musted in 1849. In 1863 another same was granted to him, guaranteeing that the British Government would permit any succession to the jagir which might be legitimate according to Muhammadan law.

Ghuism Muhammad Ali thed in 1868, and was succeeded

by his nephew Patch Ah Khān, the lately deceased incumbent, who received the hereditary trile of Nawāh in 1876. In couse quence of his misgovernment, he was removed in January, 1905, from the direct administration of the State, which was placed under the management of an Assistant Political Agent. The Nawāh died three months later, and has been succeeded by his son Saryid Ghulam Ah Khan, who is thirty-one years of age and was educated privately at Bunganapalle and Kurnool. His succession has been recognized, but he has not yet received a smoot, and the Assistant Political Agent meanwhile continues to conduct the administration.

The number of villages in the State is 63, and there are no towns. The population was 45,208 in 1871, 30,754 in 1881, 34,596 in 1891, and 32,264 in 1901. It will be seen that the State has not yet regained the inhabitants lost during the great famine of 1876—8, and that even the last decade shows a decline. Banganapalle town was formerly a piace of some importance owing to its position on the main road from Gooty to Cumbing, but it has declined greatly since the opening of the Southern Mahmitta Railway, and its present population is less than 4,000

Though the density of the population is a little higher than in the surrounding District of Kurnool, the State is most sparsely peopled, there being only 127 persons per square mile against an average of 270 for the Presidency. The ruler is a Muham madan, but the majority of the population are Hindus, who number 25,735, or nearly 80 per cent of the total. The Muhammadans come next, being 6,232, or 19 per cent. many of them live in Banganapalle town. The Christians number only 297 and there are no mismous in the State. Telugu is the prevailing language, being spoken by 81 per cent of the population, and Hindustini is more prevalent than in Kurnool, being the vernacular of 17 per cent.

The Kāpus, the chief agriculturust caste of the Teingu country, are the most numerous community among the Hindus, forming nearly at per cent of the total. Next in order come the Māles and Mādagas, who correspond to the Paraysus and Chakkuliyans of the south. The Gollas (shepherds) number 2,421, and the Boyss or shibles caste 2,286.

Among the Muselmins, the Shukhs are the most numerous tube, being 77 per cent. of the total. Next come the Satyids, who number 16 per cent. The Muselmins in the State are mostly Sunns, though the Nawab hunself is a Shish. The Christian population connets almost wholly of natives.

The general agricultural conditions and practice differ but that from those in the neighbouring British takets of Kurnool District. The chief food grains grown are children (Sergham and pulgars), cambis (Penniation typhendeus), rags (Electric area came), rice, horrs (Seturia stakes), and wheat Bengal grain is the most important of the pulses, and cotton is the most widely cultivated industrial crop

No accurate statistics are available of the total area of the State, or of the forest, arable, occupied, and cultivated areas. The Nawab had the jagte surveyed recently by a British survey party working under the Deputy-Superintendent of Revenue Survey, Kurnool. The total area, excluding hill blocks, was found to be ar8 square miles, but further details are not available. The total occupied area is returned as 74,884 acres, of which 72,333 acres are 'dry' land, 1,277 acres 'wet,' and 674 acres garden. These figures include a1,870 acres of subjects which till recently were enjoyed as estates by the relations of the former Nawabs. No reliable statistics of cultivation enat.

There are no irrigation works of importance. About twenty dams are periodically constructed across the Jurieru and water is diverted to small tanks. Only one tank is of any importance, but a good deal of cultivation is supplied by wells sunk on the banks of the Jurieru.

Lune is found at Palkur and among the hills. Many years ago, copper is said to have been obtained, and quite recently a Madras merchant stated that he had found traces of copper and coal and diamond shale, and has obtained a lease for the mining of these over 18 aquare miles. About a mile to the east of Banganapalle town is a small diamond mine, which formerly yielded some stones but is not worked now. The revenue from diamonds is estimated at Rs 2,300 in the schedule to the sassas of 1761.

The principal exports are choless, gls, skins, mangoes, oranges, and lacquer ware. For the last three of these the town of Banganapalle is noted. The principal imports are note, sugar, cloths, salt, pagery (coarse sugar), and kerosene oil

The only roads are the Rampur pass, over the Erramales, running from west to east through the heart of the State, and the Pamein Owk connecting the Pamein railway station with Banganapalle town. These two join within a mile of Banganapalle. The former was constructed by the Kurnool District board, and was once an important trade route between the east coast and the Districts of Ansintapur and Bellary. It

crosses the Nalismalais by the Nandikanama pass and the Erramalas by the Rimpur pass. It is now very little used and consequently neglected. The other road was constructed by the Nawab to connect his capital with Paniem railway station, which is 17 miles distant, and was continued to the south to link it with the Owk-Tidpatri frontier road. It is maintained in good condition. The total length of the roads is 53 miles, but they have till now been very badly maintained. A road ceas is levied for the purpose

The State is situated within the famine zone of the Presidency and suffered severely in the great distress of 1876–8. It was also affected by all the other had seasons which have affected Kurnool.

The administration was till recently conducted by the Nawab in person with the assistance of a Diwlin, who was an officer of the British service with a salary of Ra. 250 a month. The removal, at the beginning of 1905, of the Nawab from the direct management of the salar and the temporary substitution of an Assistant Political Agent have already been menhaned. The latter is now administering the State personally without a Diwlin. He is assisted by a trabible, who is responsible for the revenue administration.

There are two civil courts called the Adelat Court and the Sadr Court. The former is presided over by a Munaif, who is empowered to decide stats up to the value of Rs. 3,000. Original suits above that amount should only be filed in the Sadr Court, which used to be presided over nominally by the Nawth, but in practice by the Diwitn. The Assistant Political Agent is now president. All appeals from the Munsif's decisions lie to this court. No special authority exists by which the civil courts exercise powers over natives of British India or European British subjects.

Two courts exist for the administration of criminal justice, namely, the magistrate's court and the Sadr Court. The former is presided over by a magistrate, who is empowered to award impresonment for a term not exceeding one year, a fine not exceeding Rs goo, and whipping up to twelve stripes. The Sadr Court, presided over formerly by the Nawib or Diwin but now by the Assistant Political Agent, is both a Court of Session and an Appellate Court to which appeals from the magistrate's decisions are preferred. The powers of the Sadr Court are unlimited, except that sentences of mutilation are absolutely prohibited and that capital sentences must be confirmed by the Government of Madres.

The law relating to offences and criminal procedure which applies in British India is followed in Bangarapalle. The powers of the courts are absolute, subject to the limitations mentioned above, as regards natives of the State and natives of British India who have committed offences and remain in the State. As regards natives of India who have escaped into British territory after committing offences in the State, the Political Agent may either certify that the case should be prosecuted in British India or surrender the accused to the Bangarapalle authorities for trial in that State subject to certain exceptions. The Bangarapalle criminal courts cannot exercise any authority over European British subjects. Except house-breaking and theft, grave crime is not prevalent.

No laws and regulations have been framed by the Nawab separately for the State. The Indian Penal Code and the Civil and Criminal Procedure Codes of British India are in force, having been adopted by the Nawab as laws of the State, and other British enactments are similarly adopted as occasion requires.

As regards sait, the Nawab has undertaken absolutely to prohibit the manufacture of earth sait in his State on receipt of an annual compensation of Rs 3,000. No optim is grown, and the Nawab gets his supply from Madras on licences counter agned by the Political Agent. He has his own arrangements for the administration of the ablast revenue. The import of spirits manufactured in the State into British territory is prohibited. Toddy may, however, be imported from Banganapalle on payment of one arms per gallon by a fixed route, on which there is a claude or customs station. Until 1904 the Nawab controlled his own gangs revenue, but he has since agreed to prohibit absolutely gangs cultivation, in return for an annual payment of Rs 3,060 as compensation.

The Nawab administers his own stamp revenue, adopting the Indian Stamp Act as his model. There are no tolegraphs in the State. The State poet office was amalgamated with the British postal system on January 1, 1900, when the Nawab issued a Regulation applying the provisions of the Indian Post Office Act to Banganapalle. The only post office is at Banganapalle town

Ghulam Ah Khan, the sole *jagurdor* after 1815, made a settlement in 1820 with a view to prevent future disputes among his relatives, by which he assigned certain villeges (called sub-*jagurs*) to each of his cousins and other members of the family. These sub-*jagurs* were, from the beginning, resumable at will, they were resumed under the Government management of 1835-48,

were granted again when the estate was restored, and have recently (1905) been finally resumed by the Madras Government. The sub-segretary owned twenty eight villages, and generally enjoyed the land revenue without paying any jushbash to the Nawah

Very little is known of the land revenue history of the rest of the State. The rates of amountent are not settled, but vary with the will of the Nawab. To remove the present uncertain these of termine and land assessment and to place the land revenue administration upon a satisfactory and intelligible basis, the late Nawab, as already mentioned, recently had the State surveyed by a British survey party and contemplated introducing a revenue actilement.

The total recespts in 1904-5 amounted to Rs 96,000, of which Rs \$1,700, or nearly one fourth, was made up of deposits and loans. Of the remainder, land revenue contributed Rs \$4,000, salt, excise, makingle, and stamps, Rs \$3,500, Rs 9,800 was received from medical sources, and Rs 3,000 and Rs 3,800 were collected from road ceas and forests respectively. The total expenditure amounted to 1 s lakes, of which Rs 62,500, or more than 50 per cent, was incurred on account of the Nawab's household and family. The next considerable item is the establishment, which cost Rs \$3,100, or a little less than 50 per cent. About Rs 12,000 was given by way of pensions in lieu of sub-jagers.

The police force consisted in 1904-5 of 5 head constables, 59 constables, and one bugler, assisted by 131 talespars. There are five police stations. A july a maintained at Banganapalle, the local medical officer being as affirm superintendent.

Education is very backward. The State maintains two schools, one of which teaches up to the first and the other up to the fourth standard. In 1904–5 there were 150 pupils (all boys) in them, and the cost to the State was Rs. 1,052. Some village schools are maintained in rural tracts, but no statistics are similable regarding them.

The State possesses only one hospital, at Bangunapalle town. The total number of cases treated in 1904-5 was 13,169, 106 surgical operations were performed, and the expenditure was Rs. 4,535

The number of children vaccinated in 1904-5 was 765, of which only 621 cases, or 19 per 1,000 of the population, were successful. The results are unsatisfactory when compared with those of the adjoining British territory, where the corresponding figure was 15 6 per 1,000

SANDUR STATE

Sandur.—The smallest and least populous of the five Native 1 States in direct political relations with the Government of Madras It is surrounded by the District of Bellary, the Col-; lector of which is the Political Agent, and hes between 14° 58 and 15° 14' N and 76° 25' and 76° 42 R. In shape it is like a torpedo, with its longer axis running from north-west to south east, and it is s4 miles long and, at the broadest part, 13 The State is 161 square miles in area, contains so villages, and has a population (1901) of 11,200, of whom between one third and one-half live in Sandiir town. It constats of a long, narrow valley, shut in by two nearly parallel enclosing walls of hills covered with long grass and forest These hills are formed of Dhärwär rocks, which were deposited upon the older gramtes and then, as the earth's surface cooled, were, with the granites, subjected to enormous lateral pressure, and so crumpled up into huge wrinkles. The Sandtir valley as the hollow of one of these winkles, and the hills surrounding it are the sides of a bage trough into which the rocks have been squeezed. The strata m them stand on edge, curve gradually below the valley, and resppear, agam on edge, on the other ade

The two enclosing lines of hill are smooth in outline, flattopped, and very level along their summits, so that from outside the State they resemble long lines of wall shutting it m. Their inghest poset w at the south east corner, above the Kuminsswims temple referred to later, where they run up to 3,400 feet Rimanmala, m the centre of the southern of the two lines, just above RAMANDRUG hill station, is 3,256 feet above the At right angles to the longer axis of the valley, and through both the walls of hill which enclose it, runs the Narshalla, draming almost the whole of it. The beautiful little gorges in the two lines of hills, by which the stream first enters and then leaves the State, are among the most striking features of the country. That on the western side, by which it enters, is called the Obelsganch and has about 24 miles from Sandtir town. At the bottom, where the river rums, it is only some 15 yards wide. On either hand the dark purple and deep red bematite rocks which form the sides of this natural gate rise precipitonsly to a height of 180 feet, gradually nearing one another as they sicend. The bed of the stream is strewn with masses of rock which appear to have fallen from the sides of the gate, and their rich colours form a fine contrast to the green of the woods with which the sides of the hills are here clothed. The Bhimagandi, as the eastern gorge by which the Narihalla leaves the valley is called, is wider, but equally picturesque.

Among the game of the State may be mentioned occanonal tigers, numerous wild hog, and not a few seeder. Perfowl are plentiful, but are held sacred to the god Kumëraswami.

The valley is cooler than the neighbouring District of Bellary and receives more rain than any part of it, the average fall approaching 30 inches annually. It is singularly free from malana, considering its conformation.

Sandur has an interesting history In 1728 it was secred by an ancestor of the present Raja, a Maratha named Siddoji Rao. He belonged to a family called the Ghorpades, which name was earned, according to tradition, by one of them who scaled a preceptions fort by clinging to an ignama (glaspine) which was crawling up it Siddon Reo's grandfather had been in the service of the Sultan of Bulipur, and his three sons joined in the Maratha revolt against that king and prospered in consequence The second of them, Suddon's father, earned the hereditary triles of Hundu Rao and Mitmahket (Membukat) Meditr ("centre of the State'), which are still used by the Rajas of Sandur Siddon's eldest son was the famous Moran Rao of Goory, who followed has father as ruler of the State. In the campaign of 1775-6 Hardar Ah, after getting possession of BELLARY, took Gooty from him, and sent him to Kabbaldurga hill in Mysore, where he died soon afterwards. Haider annexed the whole territory, including Sandur, and began the fort of Krishnanegur which is still standing there. It was finished and garrisoned by has son Tipu

Morim Rao had two sons, but they both died in childhood, and he adopted a distant course named Siva Rao, who fell about 1785 in a vain attempt to turn Tipu's troops out of Sandür and was succeeded by his son Saddon, then two years old. Siddon was put under the guardianship of his uncle Venkata Rao, who in 1790, on his ward's behalf, attacked and drove out Tipu's garrison, and gamed possession of the place. After the peace with Tipu in 1790 the Ghorpades were allowed to return Sandur as part of the ancient inheritance of the family, but none of them ventured to reside there as long as Tipu was

alive Siddoji died in 1796, aged thirteen, and his widow adopted a course called Siva Rao. On the death of Tipu at the fall of Seringapatum in 1799, Siva Rao went with Venkata Rao to Sandur, and he was pageride there when Bellary District was ceded to the Company.

About this time the Peshwi, Baji Rao, granted the estate to one Jaswant Rao, a distinguished officer in Sindhu's army. No prominence was given to this grant, and Siva Rao continued to hold the estate. The Peshwi, however, regarded him as a rebellious vassal, and in 1815 endeavoured to gain possession of Sandtir by marching thither with troops, under the pretence of a pagnissage to the shine of Kumikraswimi. Sava Rao blocked the passes, and Baji Rao was only allowed to go to the temple with a few attendants by the footpaths over the hills.

The Treaty of Bassein, however, bound the Company to assust the Peshwii in reducing refractory vascals, and Bin Rao accordingly asked that the English would take Sandur from Siva Rao. Munro was therefore detached from Dhirwir with a force to demand the surrender of the valley. Siva Rao rengmed possession without opposition and in a dignified memor, and obtained in exchange an estate in Bellary Dustrict. Almost immediately afterwards, however, the Peakwa threw off the mask of friendship to the English he had been wearing. and provoked the war which ended in 1818 in the downfall of his power Munro then recommended that Sandur should be restored to Siva Rao, and Government agreed to the proposal In 18s6 a formal sanas (title-deed) for the State was granted to Sava Rato by the Madras Government died in 1840, and was followed by his nephew Venkata Rao, whom he had adopted. The latter died in 1861, and was succeeded by his son Sivashanmukha Rao In 1876 he received the title of Rital as an hereditary distinction. At has death two years later has brother Ramachandra Vitthala Rao succeeded, who was made a CIE m July, 1892, but died in the same year Rimachandra's son, the present Righ, u a minor and a being educated at Bellary.

The chief buildings of antiquarian interest in the State are I the fort of Krishnänegar already mentioned, the ancient fortress is Ramandague referred to in the account of that place, and the temple of Kumäraswämi, which is picturesquely situated in a natural amphitheatre of wooded slopes near the top of the hills 7 miles south of Sanditr town. Kumäraswämi, the Mars of the Hindu pantheon, was the child of Siva and

Parvain. The legend runs that a ferocoom demon named Tarakasum, who dwelt in this part of the Sandur hills, so harassed the Devas that they entreated Sava to send his warnor son to rid them of the mounter. Kumāraswāmi came and slew him and cut off his head. The foundation of the temple commemorates the happy event. Inscriptions in the building show that it was in existence as long ago as a D 950, but architecturally it is despiounting.

The population of Sandür m 1871 was 14,996. The famme of 1876—8 was severely felt, and m 1881 the mhabitants numbered only 10,532. In 1891 the total was 11,388, and in 1901, 11,200. More than 2,000 of the people are Minul mans, a high proportion. Of the Hundus, the most numerous communities are the sect of the Linguysts and the Bedars, the old fighting caste of this part of the country, both of whom are over 2,000 strong. Next come the Markthäs, who number 1,000, then the agricultural Sadars and Madagus and the shepherd Kuruhas, and after them the Brähmans, who are more then usually numerous and hold considerable grants of land. Kanarese is the prevalent vernacular.

The soil of the State is a rich heavy loam, which compares favourably with that of the adjoining areas. There is practically no black cotton soil, and consequently no late crops, such as cotton, are grown. By far the most important staple is cholase (Sergham pulgars), which is followed by horra (Seturia station) and says (Presentum typhendown) Pulses, culscode, betel-lest, and tobacco are also grown. Betel, tobacco, and a few other garden crops are progeted from wells, there being at present no arrigation by direct flow from either tanks or channels anywhere in Sandur. About 150 of these wells are worked, most being temporary affects without proper iming, and the area supplied is 400 acres, on most of which two crops are raised annually. Sugar cane used to be a profitable crop. but it is now mirely grown as it cumot compets with that cultivated under the TURGABHADRA channels 'Dry' crops are sown from the early part of June to the middle of July and resped in October. If the rains are late and sowing cannot be carried out until the end of July, the out turn is mustably inferior. Only one crop is usually obtained from 'dry' land, though if good min falls in November or December a second crop of Bengal gram as sometimes rused. The systems of cultivation are similar to those followed in Bellary District, though perhaps manuring is more common agricultural implements employed are also the same. Cattle

are chiefly bought, as in that District, from drovers from Nellore on the instalment system

The forests of Sandur are 87,000 acres, or about 136 square I miles, in extent. Of this area, 40,000 acres have been leased to the Madras Government for twenty five years from 188s at an annual rental of Rs 10,000, and are administered by the Forest department of Bellary District. These leased forests, as they are usually called, compute the growth on the whole of the two ranges which rim along each aide of the valley and also some part of that on the plateaux south of Sandur town. They contain no really heavy growth, but the supply of Hardwicks will eventually be considerable, and there is some teak and sandal. The thick grass is, however, of great value to cattle in times of scarcity. The chief difficulty in reproducing the growth is the constant occurrence of fires.

The numerals of the State are of unusual interest. The? haemantes found in it form probably the richest ore in India An outcrop near the southern boundary close by the village of Kummataravu forms the crest of a ndge 150 feet in height, which apparently consists entirely of pure steel grey crystalline haematite (specular iron) of intense hardness. Some of the softer ores used to be smelted by the natives, but the industry has been killed by the cheaper English from Manganese deposits have also been found in three places, the ore from one of them showing on analysis 43 per cent of manganese chorade. There are also traces of an old gold mine. Jasper rocks of great beauty and a wide range of colours, and many different tints of ochreous mineral pigments, are also found in large quantities. The pigments are excavated and used for colour washing houses, and might probably be exploited to commercial advantage

Except that the shepherd caste of the Kurubas weave course 'woollen blankets from the fleeces of the sheep of the country, there are no manufactures in the State. Nor is any consider able trade conducted at or through it.

The administration is conducted by a Diwan, subject to the general authority of the Collector of Bellary, who is ex office? Political Agent for the State. The Diwan has the powers of a divisional officer, first class magistrate, Additional Sessions Judge, and District Munisif, while the original, appellate, and revisional powers of a Collector, District Magistrate, and District and Sessions Judge vest, in matters relating to the State, in the Political Agent. No legislation is undertaken in Sandir

Such of the Acts of the Legulative Councils of the Governments of India and Madras as appear to the administration to be suited to the State are brought into force by the simple process of publicly notifying that they have been adopted Many of the executive powers exercised have no other basis than old custom held to have the force of law

The gross mecome of the State averages rather more than Rs 50,000, of which about Rs 20,000 is derived from land revenue and the sucktar/s (an old established tax levied according to no very fixed principles on professions, trades, and, in some cases, on houses), Rs 14,000 from contracts for excise, minor forest produce, &c., and Rs 10,000 from the forests leased to the Madras Government. On the expenditure aide the chief strains are the Rapa's civil list, Rs 14,000, the charges of administration, Rs 13,000, and a sum of Rs 7,576 which since 1885-6 has been set ande yearly for the repayment of the principal and interest of the debts incurred by former Rapas. The amount is so calculated as to pay off the whole of these by 1907.

Of the 160 square miles of which the State consists, only 12,500 acres, or about 19 square miles, are cultivable, the rest being forest or undit for tillage. About 15 square miles (9,500 acres) are cropped at present, the remainder, often owing to its distance from the villages, being waste. A field survey under the direction of the Madrias Survey department is in progress. When it has been completed, a settlement on the general principles followed in British territory will be carried out Formerly the accounts showed the fields by their names and their dimensions in August or 'ropes,' but the length of the 'rope' was nowhere laid down. Between 1865 and 1872 a rough survey was carried out with the aid of the village accountants, and the records so obtained are the costing guides. They do not, however, show particulants of assessment

Until very recently the amessment payable was fixed on a rack-renting system, each field being put up to anction and leased for five (or sometimes ten) years to the highest hidder. At the end of this lease the field was again put up to anction and its former tenant was thus often outsed. The uncertainty which this system involved checked any effort to improve the land personnelly by fencing it, constructing wells, planting trees, and so on, and consequently it is in contemplation, as soon as the survey and settlement have been completed and the rates of assessment in accordance with them have been prescribed, to give the ryots the same occupancy rights as in

British territory Meanwhile they are allowed to go on holding their fields at the rates fixed by the last auction held, and are not disturbed in their occupations by fresh auctions

The State contains no natural salt or salt earth, and therefore 8 no complications arise with the Salt department in British term of tory. It grows no option, and the lattle gasys which is raised is cultivated and harvested under official supervision. The system for the supply of higher is simple. The exclusive right of manufacturing and selling both spirits and toddy (palm higher) is sold to the same person. He distrik spirit in Sandur from imported pagery (coarse sugar), and imports from elsewhere such toddy as is required, there being hardly any palm trees in the State

Both short and long term presoners are confined in the jail F. The average number of convicts is about 15, and is thus too small to allow of the organization of jail manufactures, so the presoners are usually employed in repairing the roads. The Police force consists of an Inspector 4 head constables, and 25 constables, and there are 4 police stations. Under the terms on which the State is held sentences of death cannot be passed without the sanction of the Government of Madras. Special rules regarding criminal jurisdiction are in force in the sanctarium of Ramandrug. Extradition from the State is arranged through the Political Agent, and is usually sanctioned only when the offence is of a minor description. In the case of more senious crimes triable only by a Court of Session, the Political Agent proceeds against the offender as though the offence had been committed in British India.

Sandur possesses a lower accordary school, seven primary pechools, and a girls school. The first of these was opened at the end of 1882, but the present building was erected in 1887-8, and the matriution is consequently known as the Jubilee School. Neither the Muhammadans nor the Linguyats of Sandur place much value on education, and progress is slow At the Census of 1901 only 109 males and 5 females in every 1,000 could read and write. The girls' school was started by the London Mission in 1808-0, and is still managed by that body

The Sandur dupensary was opened in 1881 and is very: popular, many patients coming to it from adjoining villages in British territory

[Further particulars regarding Sandur will be found in the Bellary District Gesetter (1904), and its geology and minerals are referred to at length in Mr Bruce Foote's account of the geology of that District in Managers of the Geological Survey, vol xxv]

FRENCH POSSESSIONS

French Possessions.—The head quarters of the Governor of French Inche are at Pondicherry, and the French Possessions comprise five Settlements, with certain dependent legis or plots. They aggregate 203 square miles, and had a total population in 1891 of 286 347 persons and in 1901 of 273,185. These totals were made up as under Poutlicherary, area 115 square miles, population 174,456, Karllal, 53 square miles, population 56,595, Mari, 26 square miles, population 10,298, Yaman, 5 square miles, population 5,005, and Charles magoris, 4 square miles, population 26,831. Except the last, these possessions are all located within the Madias Presidency. The greater part of the decline in the population in the decade 1891–1901 occurred at Karlkal.

The first French expedition into Indian waters, with a view to open up commercial relations, dates as far back as 1603 It was undertaken by private merchants at Rouen but it failed, as also did several similar attempts which followed. In 1642 Cardinal Richelion founded the first Compagnic des Indes Orientales, but its efforts met with no success. Colbert reconstituted the Company on a wider basis in 1664, granting exemption from taxes and a monopoly of the Indian trade for fifty years. After baying twice attempted, without success, to establish itself in Madegascar, Colbert's Company again took up the idea of direct trade with India, and its President, Caron, founded in 1668 the Compton or agency at Sunat. But on finding that city unmitted for a head establishment, he secred the harbour of Trincomelee in Ceylon from the Dutch Dutch, however, speedily retook Trincomales and Caron, passing over to the Coromandel coast, in 1672 seized St. Thome, a Portuguese town adjoining Madras which had for twelve years been in the possession of Holland. He was, however, compelled to restore it to the Dutch in 1674.

The rum of the Company seemed superding, when one of its agents, the celebrated François Martin, suddenly restored it Railying under bith a handful of sixty Franchmen, saved out of the wrecks of the settlements at Trincomalee and St. Thome, he took up his abode at Pondicherry, then a small village, which he purchased in 1683 from the Ripi of Gingee. He built fortifications, and a trade began to spring up, but he was unable to hold the town against the Dutch, who wrested it from him in 1693, and held it intil it was restored to the French by the Treaty of Ryswick in 1699.

Pondicherry became in this year, and has ever since remained. the most important of the French Settlements in India foundation was contemporaneous with that of Calcutta, like Calcutta, its sate was purchased by a European Company from a native Prince, and what Job Charnock was to Calcutta, Françous Martin proved to Pondicherry On its restitution to the French by the Peace of Ryswick in 1600, Martin was appointed governor, and under his able management Pondi cherry became an entrepôt of trade Chandernagore, in Lower Bengal, had been acquired by the French Company in 1688, by grant from the Delbs emperor, Mahe, on the Malabar coast, was obtained in 1725-6, under the government of M Lenor, Kankal, on the Coromandel coast, under that of M Dumas m 1739 Yanam, on the coast of the Northern Circurs, was taken possession of in 1750, and formally ceded to the French two years later

The war of 1741 between France and England led to the attack alike of Madrus and of Pondicherry, the capitals of the English and French Companies in Southern India La Bour domnais equipped at his own expense a fleet, and laid nego to Madras, which capitulated on September 21, 1746, and was manaomed for £400,000. The Raghah in due time made represals On April 26, 1748, they appeared before Ponch cherry, but eventually retired after a most skilful defence of the town conducted by the famous Duplex during forty two The Peace of Aix la Chapelle put a stop to further hostilities, and left Dupleix free to further his dream of an Indua empire for France Between 1746 and 1756, by a happy minghing of clever diplomacy and fearless daring. Duplent and his lieutenants passed from success to success until the French reached the height of their power in the South obtained from the Delhi emperor the Nawabahip of the Carnatic, established a protectorate over the Sudak of Arcot and other parts of Southern India, made large additions to the French territors around Pondicherry, Känkal, and Masulipetam, and extended the French anthonty over the four Sarkars of Musiali. ment, Ellore, Rajahmundry, and Chescole, and the mland of Srirangam, formed by two arms of the Cauvery These various annexations opened up to French commerce 200 leagues of scaboard, and yielded a revenue of £800,000 (so milhon francs)

This period of power proved of short duration. Duplers, feebly supported by the court of Versulles, met with a series of reverses from the English Company, and was recalled to Paris in 1753. A certain extent of the territory still remained to his successor, but during the Seven Years' War, the Government of France could afford no reinforcements for its Indian possessions. The English Company overran them, defeated the French at Wandiwish, and seized Arcot. Lally Tollendal, after a chivalrous defence, surrendered Pondicherry on January 6, 1761. The English demokahed the town, the walls, the forts, the public buildings, were all destroyed. The captured troops and all Europeans in the French Company's service were deported to France.

Two years later, the peace of 1763 restored Poncheherry and the other Indian Settlements to the French, but with their former territories greath curtailed. The abolition of the monopoly of the French Company in 1760 threw open the trade, and Pondi cherry began to show agas of new vitality. But in 1778 it again fell into the hands of the English East India Company In 1782 the Bulli de Suffren made a bulliant effort on behalf of his countrymen, fighting four navel battles with the English in seven months, and retaking the fort of Trincoinalee Next year, the Treaty of Verseilles restored Pondicherry and the other Settlements to the French, January 20, 1783 But the English Company took advantage, as usual, of the breaking out of the next war in Europe to seize the French possessions in India, and again compelled their rivals to evacuate their settlements in 1703. The Peace of Amiens once more restored them to the French m 1802, on the renewal of hostilities, the English Company again seized them, September 11, 1803 Pondicherry thus passed for the fourth time under linguish rule. and, during the long Napoleonic wars, the French power ceased to exist in India.

Pondscherry and the other Settlements were restored to the French by the treaties of 1814 and 1815, the territories being finally reduced to their present limits. The French had to begin the whole work of their Indian Settlements in new, and an expedition arrived at Pondscherry on September 16, 1816, to re enter on possession. On December 4, 1816, Pondscherry and Chanderingore were delivered over to them, Kärikäl on January 14, 1817, Mahé, on February 22, 1817, and Yanam, on April 18, 1817. A convention between the Governments of France

and England, dated March 7, 1815, regulated the conditions of their restoration. The French renounced their former right, under the convention of August 30, 1787, to claim annually from the English East India Company 300 chests of opuum at cost prace, and agreed to pay henceforth the average rates realized at the Calcutta sales. They also bound themselves to make over to the English Company, at a fixed price, all simplies salt manufactured within their restored territories over and above the requirements of the local population. In compensation for these concessions, the English agreed to pay 4 lakha of nece rupees (one million francs, or, say, £40,000) annually to the French Government. As it was found that the right to make salt at all in the French Settlements led to the amuggling of that article into the surrounding British Districts, the French Government was induced, on May 13, 1818, to surrender it altogether for an annual payment of 4,000 pagodes (33,600 frames, or, say, £1,344) This second treaty, although at first made for only fifteen years, has been indefinitely prolonged, the British Government supplying the French authorities with salt at cost price, and allowing the latter to sell it to their own subjects at their own rates. Difficulties still continue regarding the supply of arrack, or country liquor, that made in Pondscherry being cheaper than the British product after it has paid the heavy excise duty, and special arrangements are required along the Pondicherry border. The cost of manufacture of toddy (palm pace honor) is about equal in the two territories and no complications easile. The tenff on imports into Buttah India also necessitates the maintenance of a special land customs establishment all along the intricate frontier of the Pondicherry Settlement

The military command and administration-in chief of the French possessions in Incha are vested in a Governor, whose residence is at Pondicherry. He is assisted by a minister of the interior, secretaries in the different administrative departments, and a principal judicial officer. In 1879 local councils and a council general were established, the members being chosen by a sort of universal suffrage within the French territories. Ten municipalities or communal boards were erected under a decree usued in 1880 namely, at Pondicherry, Oulgaret, Villenour, Bahfir, Kärikäi, La Grande Aldée, Nedungado, Chandernagore, Mahé, and Yanam. On municipal boards natives are entitled to a proportion of the seats. Civil and criminal courts, courts of first instance, and a court of appeal compose the judicial machinery. The army and establishments

connected with the Governor and his staff at Pondicherry, and those of the local governors or sheft do territor at Chandernagure, Yanam, Mahé, and Karikal, together with other head-quarters charges, necessarily engross a large proportion of the revenue All the state and dignity of an independent Government, with four dependent ones, have to be maintained. This is effected by rigid economy, and the prestige of the French is worthly maintained in the Rast Ponchcherry is also the accine of considerable reheaous pomp and missionary activity forms the seat of a Prefecture Apostohque, founded in 1828, consisting of a Prefet Apostohotte and a body of process for all French Indu, and of the Musicous Etrangères, the successors of the Mission du Carnetic founded by the Jesuits nº 1776 But the chief field of this mussion has outside the French Settlements, a laure proportion of its Christians are British subjects and many of the churches are in British territory The British rupes as the only legal tender within French territories. The system of education is progressive to a satisfactory extent. A line of milway running via Villenour, from Pondicherry to Villapuram on the South Indian Railway main tame communication with Madras and the rest of British India, and karskal is linked to the same railway by the branch from Peralam The telegraph is working throughout the Settle ments. A Chamber of Commerce consistent of fourteen members, rune of them Europeans or persons of European descent, was reorganized in 1879. The capital Pondicherry, as a very handsome town, and presents, especially from the sea, a striking appearance of French civilization. It forms the head quarters of the French national line of steam communica tion with the East, the Messagenes Maritimes The total sea borne exports from French India in 1904 were returned at £1,209,000, of which £400,000 was with France, £112,000 with French colonics, and the remainder with other countries. thirdy British. The imports by see in the same year were valued at £232,000, of which £202,000 came from foreign countries and the remainder from France and her colonies The number of ships entering ports in the French Settlements in the same year was 415 with an aggregate burthen of 683,727 tops.

Pondicherry (Pulucher, Pulcher)—The chief of the French Settlements in India, the capital of which, a town of the same name, is the head quarters of their Governor. The town is situated on the Coromandel coast in 11° 56′ N and 79° 49′ E, about 12 miles north of Cuddalore. It has on the

toad leading from Madras to Cuddalore, and is the terminus of the Villupurum-Pondicherry branch of the South Indian Railway The distance from Madras to Pondicherry is 122 miles by rail and 105 miles by road. The area of the Settle-- ment is 115 square miles, and its population in 1901 numbered 174.456 It consists of the four communes of Pondicherry, Oulgaret, Villenour, and Bahür The population of the town of Pondicherry in the same year was 27,448, of whom 12,904 were males and 14,544 females. Hindus numbered 14,544 and Christians 7, 247, most of the latter being Roman Catholics The history of the place is given in the article on the French Possessions The Settlement was founded in 1674 under François Martin In 1603 it was captured by the Dutch, but was restored in 1699. It was beneged four times by the English. The first stere under Admiral Boscawen in 1748 was imsuccessful. The second, under Ryre Coote in 1761, resulted in the capture of the place, which was restored in 1765. It was again beneged and captured in 1778 by Sir Hector Munro, and the fortifications were demohished in 1779 The place was again restored in 1785 under the Treaty of Versailles of 1783. It was captured a fourth time by Colonel Bruthwaite m 1703, and finally restored in 1816

The Settlement comprises a number of isolated pieces of territory which are cut off from the main part and surrounded by the British District of South Arcot, except where they border on the sea. Thus fact occasions considerable difficulty m questions connected with crime, land customs, and excise. The Collector of South Arcot is empowered to deal with ordinary correspondence with the French authorities on these and kindred matters, and in this capacity is styled the Special At Pondicherry itself is a British Consular Agent accredited to the French Government, who as usually an officer of the Indian Army. The town is compact, next and clean, and as divided by a capal into two parts, the Ville blanche and the Ville noire. The Ville blanche has a European appearance, the streets being laid at right angles to one another, with trees along their margins reminding the visitor of continental honlevards, and the houses being constructed with courtyards and embellished with green venetians. All the cross streets lead down to the shore, where a wide promenade facing the see is again different from anything of its kind in Southern Indu. In the middle is a screw-file pier which serves, when ships touch at the port, as a point for the landing of cargo and, on bolidays, as a general promenade for the population. There no real harbour at Pondicherry, ships he at a distance of about a mile from the abore, and communication with them is conducted by the usual marnis boats of this coast the shore end of the pier is a statue of the great Duplenz, to whom the place and the Trench name owed so much surrounded by a group of carved stone columns which are said to have been brought from the rums of the celebrated fort of GINGER. Behand is the Place Duplem (or Place de la Repub lique) with a bandstand, and west again of this the Place du Gouvernement, a wide extent of grass with a fountain in the middle of it, round which stand the chief buildings of the town, including Government House, the Hotel de Ville, the High Court, and the harracks. Other erections in the town are the Secretariat, the Cathedral of Notre Dame des Anges, the college of the Missions Etningères, the Calve college, two clock towers, a lighthouse, the hospital, and the sail. The town also contains a public library of about 16,000 volumes, and public gardens with a small collection of wild animals and burds

Pondicherry was made a municipality in 1880, with a mayor and a council of eighteen members. The receipts and expendi ture of this body during the ten years ending 1902 averaged Rs 47,000 There is no drainage system, but the water-supply is excellent, being derived from a sense of artesian wells, which are one of the features of the place. Until they were du covered, about the middle of last century, the only source of supply was from ordinary wells sunk within the town. The best of the present artenan sources is at Mudrapilian am, from which pipes have been taken to reservoirs in the market and the Place du Gouvernement. The roads of the town are kept in excellent order. The ordinary means of locomotion is the well known 'push push,' which is pushed and pulled by two men. The chief educational institutions are a college belonging to the Missions Etrangères, which teaches up to the BA. standard in French, and the Calve college, a non-denomina monal institution in which both Europeans and natives receive instruction up to the Matriculation. The latter is affiliated to the Madras University. The industries of Pondicherry consist chiefly of weaving. The Patriulkarene, a Gujarati caste of weavers, make a kind of sephyr fabric which is much used locally and is exported largely to Singapore. Cotton stuffs are also woven by machinery in the Rodier, Savana, and Gashele mills. A new midustry is the manufacture of cocotine, a substitute for giv, at the Sainte Ehmbeth factory. The total value of the imports by sea in 1904 was £179,000, and of the exports £1,102,000, of which £27,000 and £435,000 respectively were brought from and sent to France or French colonies. The principal imports are wines and spinis and areca nut, but the total is made up of a number of items of which none is individually important. The exports mainly consist of ground-nut kernels and oil, but cotton fabrics, eoco nut oil, and nee are also items of importance. The boats of the Messagenes Mantimes Company call regularly at the port

Karikal (Karashidi, 'fish pase', the Carical Carsshalla of Bartolomeo) -- French town and Settlement on the Coromandel coast, lying between the tillule of Mayavaram, Nannilam. and Negapatam in the Tanjore District of Madras and the Buy of Bengal The town is situated in ro 55' N and 70° 50' E The Settlement is divided into three communes. containing 110 villages in all, and covering an area of 53 square miles, and is governed by an Administrator subordinate to the Governor at PostDichesay The population has been rapidly decreasing In 1883 it was 02.055, in 1801, 70,526, and in 1901, 56,595, but its density is still very high, being 1,068 persons per square mile Kumbakonam is the only take in Tanyore District which has a higher density. Each of the three communes, namely, Känkäl, La Grande Aldee, and Nedungadu, possesses a mayor and council. The members are all elected by universal suffrage, but in the municipality of Karikai half the number of seats is reserved for Europeans or their descendants. The country is very fertile, being irrigated by seven branches of the Cauvery namely, the Nandality, Nattar, Araselar, Thromaismanar, Muchkondanar, Vanpar, and Nulär, bendes many smaller channels

The capital of the Settlement is situated on the north bank of the Aramilia, about 1 miles from its month. It has a brisk trade in nee with Ceylon and to a less extent with the Straits Settlements. In 1904 it had no commerce whatever with France, and very little with other French colonies. The total imports amounted to £49,000, of which £1,600 came from the French colonies. The total exports were valued at £106,000, out of which only £600 went to the French colonies. The port is merely an open readstead, provided with a lighthouse 142 feet high, the light in which has a range of from 8 to 10 miles. Indian labourers emigrate from Känkäl to the French colonies in large numbers. Inland customs are governed by a convention with the Madras Government, and all saft consumed in French territory is by treaty purchased

from the British on payment of an annual indemnity of Rs so 748. In 1899 Kankal was connected with Peralam on the Tamore District board railway. The line is 144 miles long and is owned by the French Government, but worked by the South Indian Railway Company.

Kankal was promised to the French in 1738, in return for their assistance, by Sayan, the exiled Raja of Tanjorn. He did not, however, keep his promise, and it was only by the assistance of Chanda Sahib, then at war with Sayan, that a grant of the town was obtained in the following year. An additional cession of 81 villages was obtained in 1749 under a like pressure and with the same assistance, when the French and Chanda Sahib were besieging Tanjore. The latter grant was confirmed by treaty in 1754. The town and fort were besieged by an English force under Mayor Monson in 1760, and, after a gallant defence of ten days, surrendered on April 15. They came into British possession again on three subsequent occasions (see Tranch Possessions), and were finally restored to the French on January 14, 1817.

Maha.—French Settlement within the hinits of Malabar District Madras Prendency, situated in 11° 43' N and 75° 15' E, near the mouth of the river Mahé, about 4 males south of Tellicherry Area, 26 square miles, population (1901), 10, so 8 The history of Mahé resembles in its essentials that of the other France Possessions, and it is now a decaying place. Most of its cinef buildings are picturesquely intuated on the bank of the river close to its mouth. The site is hilly and covered with a dense mass of coco mit palms, and it is noted for the fertility of its soil and the salubrity of its climate The Settlement is in charge of a chef de service subordinate to the Governor at Postpickers The place contains a Roman Catholic chapel, three boys' schools, one guis school, and a British post office. A long wooden bridge maintained by the Malabar District board gives access to British territory on the right bank. The milway line from Cahout to Camanore passes close to Mahe

Yanam (French, Yanase) — French Settlement within the innits of Godavan District, Madras Presidency, utuated in 16° 44' N and 82° 13' E, about 12 miles from the mouth of the Gastami Godävan, at the point where the Coringa river branches off from the main stream. The territory extends along the banks of these rivers and has an area of 5 square miles. Besides Vanum, four hamlets—Advipalem, Kanakalapets, Mettakura, and Kunsammapets—are meladed in st. The

population of the Settlement in 1901 was 5,005, compared with 5,327 in 1891

Yanam is a comparatively modern town. The French first established a factory here about 1750, and the place was formally coded to them in 1752. It shared the vicinitudes of the other French Possessions on the coast, and from 1703 cowards was, save for a short period in 1809-2, in the occupation of the English till the treaties of 1815 restored it to its former owners. In 1839 the town was laid waste by a humi cane which was accompanied by a great mundation of the sea. Subject to the control of the Governor of the French Posses sions, who tesides at POEDICHERRY, Yanam is administered by an official called the Administrator, who is assisted by an elective council of aix members. The Administrator is the head of the magnitudey and police, and president of the criminal court. Local affairs are managed by a comminal council also elective, of twelve members. There are two free schools, one for boys and the other for girls, having an attend ance of sor and sas respectively. The area of cultivated land m the Settlement in 1903 was 664 hectares, or about 1,000 Land is held in absolute ownership subject to the payment of an assessment of Rs 37-8-o per candy (about 41 acres) for cultivated land, and Rs 5 for pasture land Water for impation is supplied free of cost from the British canal which passes through Yanam. There is now little trade, in 1904 the exports were valued at only £900 and the imports at £2,600

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